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1914/15

The University of Minnesota

GENERAL EXTENSION DIVISION

EVENING COURSES

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AUG 17 1917

1914-1915

BULLETIN OF THE UNIVERSITY OF MINNESOTA
VOL. XVII, No. 20. AUGUST 1914

Entered at the Post-Office
in Minneapolis as second-class matter
Minneapolis, Minn.

The Bulletin of the University of Minnesota is issued as often as twice a month during the University year.

The Bulletin comprises—

Original Series. Containing the reports of the President and of the Board of Regents, the Register, the Bulletin of General Information, the annual announcements of the individual colleges of the University, etc.

General Series. Containing announcements of departments of instruction, reports of University officers, etc.

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The University of Minnesota.
Minneapolis, Minnesota.

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1914

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CALENDAR

1914-1915

1914		
September	21-26	Registration Week
September	25	Friday, 8:00 p. m. Annual opening of St. Paul Institute and General Extension Courses, Mechanic Arts High School, St. Paul
September	26	Saturday, 8 p. m. Annual opening of General Extension Courses, Minneapolis
September	28	Monday. Regular class work begins
November	26	Thursday. Thanksgiving holiday
December	19	Saturday. Christmas recess to January 3, 1915
1915		
January	4	Monday. Class work resumed
January	25-29	Examination week, first semester
February	1	Second semester begins
May	17-21	Examination week, second semester

GENERAL EXTENSION DIVISION

FACULTY

George Edgar Vincent, Ph.D., LL.D., President 1005 5th St. S. E.
Cyrus Northrop, LL.D., President, Emeritus 519 10th Ave. S. E.
Richard R. Price, M.A., Director of University Extension 810 6th St. S. E.
George B. Frankforter, Ph.D., Dean of the School of Chemistry, Professor of Chemistry 525 E. River Road
George F. James, Ph.D., Dean of the College of Education, Professor of Education 316 10th Ave. S. E.
John Black Johnston, Ph.D., Dean of the College of Science, Literature, and the Arts, Professor of Comparative Neurology 715 Fulton St. S. E.
Francis C. Shenehon, C.E., Dean of the College of Engineering and the Mechanic Arts, Professor of Civil Engineering 2109 Blaisdell Ave.
William R. Vance, Ph.D., LL.D., Dean of the Law School, Professor of Law 412 9th Ave. S. E.
Howard S. Abbott, B.L., Lecturer on Corporation Law 900 6th St. S. E.
Lincoln K. Adkins, M.S., Instructor in Mathematics 14 Sidney Place S. E.
Cephas D. Allin, M.A., LL.B., Associate Professor of Political Science 721 7th St. S. E.
Gisle Bothne, M.A., Professor of Scandinavian Languages and Literatures 1206 7th St. S. E.
William E. Brooke, B.C.E., M.A., Professor of Mathematics and Mechanics 416 Walnut St. S. E.
Oscar C. Burkhard, M.A., Assistant Professor of German 719 E. River Road
*Richard Burton, Ph.D., Professor of English Literature 2109 Blaisdell Ave.
Frederic E. Clements, Ph.D., Professor of Botany 800 4th St. S. E.
Charles H. Corbett, Jr., Lecturer in Salesmanship, General Extension Division 1005 Commerce Bldg., St. Paul
Hardin Craig, Ph.D., Professor of English
Alvin S. Cutler, C.E., Assistant Professor of Railway Engineering 2018 Hamline Ave.
James Davies, Ph.D., Instructor in German 216 5th Ave. S. E.
William S. Davis, Ph.D., Professor of Ancient History 806 6th St. S. E.
Gerhard Dietrichson, Ph.D., Instructor in Chemistry 429 Walnut St. S. E.

*Absent on leave 1914-15.

John F. Ebersole, M.A., Assistant Professor of Economics 312 State St. S. E.
Austin S. Edwards, Ph.D., Instructor in Psychology 1910 4th St. S. E.
O. C. Edwards, M.E., Instructor in Mechanical Engineering, General Extension Division 826 University Ave. S. E.
Oscar W. Firkins, M.A., Assistant Professor of English 1528 4th St. S. E.
Henry J. Fletcher, LL.M., Professor of Law 317 17th Ave. S. E.
Jules T. Frelin, B.A., Assistant Professor of French 112 Church St. S. E.
Robert W. French, B.S., Instructor in Drawing 1018 16th Ave. S. E.
John T. Geissendoerfer, Ph.D., Instructor in German 967 14th Ave. S. E.
Gerhard A. Gesell, B.A., Assistant Professor of Economics, General Extension Division 500 Essex St. S. E.
Haldor B. Gislason, B.A., LL.B., Instructor in Rhetoric 217 Harvard St. S. E.
John E. Granrud, Ph.D., Professor of Latin 605 Delaware St. S. E.
John H. Gray, Ph.D., Professor of Economics 412 Walnut St. S. E.
Stanley B. Houck, LL.M., Instructor in Business Law, General Extension Division 615 E. 17th St.
John C. Hutchinson, B.A., Professor of Greek 3806 Blaisdell Ave.
Albert E. Jenks, Ph.D., Professor of Anthropology 825 5th St. S. E.
A. Walfred Johnston, M.A., Instructor in Geology 112 Church St. S. E.
Alfred E. Koenig, M.A., Instructor in German 977 14th Ave. S. E.
Lee Kuempel, Lecturer in Railroad Traffic, General Extension Division 4544 Colfax Ave. S.
Fred Kuhlmann, M.D., Lecturer in Psychology Faribault, Minn.
Edward M. Lehnerts, M.A., Assistant Professor of Geography, General Extension Division 800 4th St. S. E.
Frederick M. Mann, M.S. in Arch., Professor of Architecture 202 Ridgewood Ave.
Franklin R. McMillan, C.E., Instructor in Experimental Engineering 524 8th Ave. S. E.
John V. Martenis, M.E., Assistant Professor of Mechanical Engineering 206 Harvard St. S. E.
Mac Martin, B.A., Professorial Lecturer in Advertising, General Extension Division 614 E. 25th St.
Wallace H. Martin, M.E., Instructor in Mechanical Engineering 1475 Cleveland Ave., St. Paul
James B. Miner, Ph.D., Assistant Professor of Psychology 428 Walnut St. S. E.
Thomas W. Mitchell, Ph.D., Assistant Professor of Business Administration 2349 Bourne Ave., St. Paul
Paul H. Neystrom, Ph.D., Associate Professor of Economics, General Extension Division

George N. Northrop, M.A., Assistant Professor of English 2213 Grand Ave.
James Paige, M.A., LL.M., Professor of Law 420 Oak Grove St.
Raymond V. Phelan, Ph.D., Instructor in Economics, General Extension Division 612 10th Ave. S. E.
John Walker Powell, B.A., D.D. 819 University Ave. S. E.
Charles H. Preston, B.A., Assistant Professor of Business Administration, General Extension Division 99 Bedford St. S. E.
Samuel Quigley, M.A., Assistant Professor of Education 522 15th Ave. S. E.
Albert W. Rankin, B.A., Professor of Education 916 5th St. S. E.
Frank M. Rarig, M.A., Assistant Professor of Rhetoric 63 Barton Ave. S. E.
William H. Richards, Instructor in Carpentry and Pattern Work 1423 W. 27th St.
Carl O. Rosendahl, Ph.D., Professor of Botany 2191 Commonwealth Ave., St. Paul
Clare S. Rotzel, B.C.S., C.P.A., Associate Professor of Accounting, General Extension Division 129 Bedford St. S. E.
Frank B. Rowley, M.E., Assistant Professor of Drawing and Descriptive Geometry 217 Beacon St. S. E.
William T. Ryan, E.E., Assistant Professor of Electrical Engineering 3228 4th St. S. E.
Charles A. Savage, Ph.D., Professor of Greek 810 6th St. S. E.
Carl Schlenker, B.A., Professor of German 514 11th Ave. S. E.
George D. Shepardson, D.Sc., Professor of Electrical Engineering 717 E. River Road
Gustav F. Schonek, Lecturer in Salesmanship, General Extension Division 1715 Portland Ave.
S. Carl Shipley, M.E., Assistant Professor of Machine Construction 1517 E. River Road
Charles F. Shoop, B.S., Assistant Professor of Experimental Engineering 811 Fulton St. S. E.
John F. Sinclair, B.A., LL.B., Instructor in Business Law, General Extension Division 203 W. 34th St.
Hermon L. Slobin, Ph.D., Assistant Professor of Mathematics 1514 Brook Ave. S. E.
Andrew A. Stomberg, M.S., Professor of Scandinavian Languages and Literatures 531 Walnut St. S. E.
David F. Swenson, B.S., Associate Professor of Philosophy 979 14th Ave. S. E.
Fletcher H. Swift, Ph.D., Professor of Education 215 Walnut St. S. E.
Edward S. Thurston, M.A., LL.B., Professor of Law 911 5th St. S. E.
Josephine E. Tilden, M.S., Professor of Botany 2235 Como Ave. W., St. Paul

*Thomas W. Todd, B.A., Instructor in Business Correspondence, General Extension Division 617 University Ave. S. E.
Hubert M. Turner, B.S., Instructor in Electrical Engineering 719 Erie St. S. E.
Lewis B. Walton, B.S. in Arch., Instructor in Architecture 436 Harvard St. S. E.
Herbert Woodrow, Ph.D., Assistant Professor of Psychology 806 4th St. S. E.
Jeremiah S. Young, Ph.D., Associate Professor of Political Science 1120 6th St. S. E.
Otto S. Zelner, B.S., Assistant Professor of Surveying 2265 Carter Ave., St. Paul
H. K. Zuppinger, Lecturer in Merchandising, General Extension Division 2530 Dupont Ave. S.

SPECIAL LECTURERS

Walter P. Burr, Assistant General Freight Agent, Chicago, St. Paul, Minneapolis & Omaha Railroad, St. Paul
Elmer L. Clifford, Advertising Manager, *Minneapolis Journal*
D. D. Dayton, Secretary, The Dayton Company
Sherman L. Gilfillan, Credit Manager, L. S. Donaldson Co., Minneapolis
W. L. Harris, President, New England Furniture Co., Minneapolis
James F. Jordan, Credit Manager, Wyman, Partridge & Co., Minneapolis
W. C. Smiley, Attorney, St. Paul
J. S. Taylor, Secretary, Minneapolis Retail Grocers' Association
J. G. Woodworth, Second Vice-President, Northern Pacific Railway Co., St. Paul

ADVISORY COUNCIL ON BUSINESS INSTRUCTION

MINNEAPOLIS

Francis A. Chamberlain, Clearing House Association
L. A. Condit, Minneapolis Association of Office Men
Orrin M. Corwin, Rotary Club
George D. Dayton, The Minneapolis Retailers' Association
Edwin J. Fisher, Minneapolis Association of Credit Men
Douglas A. Fiske, Civic and Commerce Association
Mac Martin, Minneapolis Advertising Forum
Frank J. Mulcahy, Minneapolis Chapter American Institute of Banking
F. S. Pool, The Minneapolis Traffic Club
Byron H. Timberlake, Minneapolis Association of Underwriters

*Died July 31, 1914.

ST. PAUL

C. W. Ames, St. Paul Institute of Arts and Sciences
F. M. Collester, St. Paul Association of Credit Men
Dean B. Gregg, Sales Managers' Association
H. C. Klein, Town Criers Club
H. A. Merrill, St. Paul Board of Education
E. O. Nordstom, St. Paul Chapter American Institute of Banking
R. E. Olds, St. Paul Association of Commerce
N. J. Osborn, St. Paul Commercial Club
A. C. Raymer, Builders' Exchange of St. Paul
John A. Seeger, Daytons Bluff Commercial Club
T. F. Smith, The Rotary Club
M. W. Stoffer, St. Paul Association of Office Men
H. M. Temple, Minnesota Society of Public Accountants

ADVISORY COUNCIL

DULUTH

John G. Williams	1910 Alworth Bldg.
George D. McCarthy	911 E. 5th St.
A. H. Comstock	1320 E. Superior St.
B. C. Wade	Y. M. C. A.
R. B. Knox	1314 E. Superior St.
J. J. Moe	2102 W. Superior St.
W. J. Olcott	2316 E. 1st St.
C. A. Duncan	1400 Alworth Bldg.
B. P. Neff	2126 Jefferson St.
W. H. Hoyt	313 S. 21st Ave. E.
J. A. Stephenson	1931 E. 1st St.
L. A. Barnes	831 N. 57th Ave. W.
E. W. Bohannon, President State Normal School	2323 E. 5th St.
R. E. Denfeld, Superintendent of Schools	18 Oxford
Mrs. T. J. Davis	405 First Nat'l Bank Bldg.
Hon. W. E. McEwen	Manhattan Bldg.

EXTENSION SERVICE

The Extension Service of the University of Minnesota is organized to include:

A. Evening classes, primarily in Minneapolis, St. Paul, and Duluth.

(1) Courses leading to credit in the College of Science, Literature, and the Arts.

(2) Law courses.

(3) Courses in Business Administration, Accountancy, and Finance.

(4) Afternoon, evening, and Saturday classes in Education.

(5) Practical courses in Engineering.

B. Correspondence courses.

C. Extension lectures, singly or in groups, and lyceum lectures, concerts, and entertainments.

D. Agricultural extension, including lectures, demonstrations, institutes, and short courses under the direction of the College of Agriculture.

E. University coöperation with local educational effort as exemplified by the "University Weeks."

F. The short course in Retail Merchandising.

EVENING EXTENSION COURSES

GENERAL INFORMATION

ADMISSION TO COURSES

It is not intended that any regulation should debar from the privileges of these courses any person who can pursue them profitably. Those persons desiring credit toward a University degree must of course comply with the regulations laid down by the college in which credit is desired. Those not desiring such credit may be admitted, provided they are sufficiently mature (usually twenty-one years of age) and can satisfy the departments in which they wish to study that they are able to carry the work profitably to themselves and without hindrance to the classes.

CREDIT FOR EXTENSION COURSES

Credit toward a degree will be given students who satisfy the entrance requirements of the college in which credit is desired and who successfully complete any of the Extension courses of University grade. This applies to all the courses listed under Academic or Collegiate courses, unless otherwise specified. It also applies to nearly all of the Business courses. The statement in regard to credit for Law courses will be found on page 50. Such credits will be recorded upon matriculation in the University. Courses requiring one evening (two hours) a week for recitation normally carry two credits. Those requiring more time usually carry correspondingly more credit.

The statement concerning credit for the Certificates in Accountancy, in Finance, and in General Business will be found on pages 31, 35, and 37.

Students must indicate at the time of registration whether or not they desire University credit in the courses pursued.

Regulations Concerning Credit in the College of Science, Literature, and the Arts

(1) All courses for which credit is given in the College of Science, Literature, and the Arts must be authorized with the credits by the Advisory Committee. But credit shall be given only to those Extension courses which are conducted in essentially the same manner as the corresponding courses in the University and which are carried on under similar conditions as to attendance, term's work, quizzes, and examinations.

(2) Each credit course shall be directly in charge of a member of the Faculty.

(3) Any regularly enrolled University student successfully completing an approved course shall receive the appropriate credit.

(4) Any person qualified to be admitted to the University shall receive a certificate upon satisfactorily completing an approved course. The certificates entitle the holder to the corresponding University credits whenever he has earned thirty credits in residence. The Registrar or the Administrative Board shall in all cases pass upon the qualifications of the student.

(5) No credits shall be given to students not properly qualified to be admitted to the University as regular students.

(6) The maximum credit towards a degree for work done in Extension courses shall not exceed one-half the unit hours required for graduation. At least twelve credits in the major subject shall be completed in regular college classes and of these six must be from the starred courses.

(7) Credit for an amount not exceeding one-quarter of the unit hours required for graduation may be given at the University of Minnesota to students of such other Extension Schools or Departments as may be approved by the Advisory Committee, provided that such credit shall be subject to the same provisions as govern credits in the General Extension Division of the University of Minnesota.

University Students and Correspondence and Extension Work

(1) No University student may enroll for a Correspondence or Extension course for the purpose of removing a condition or failure.

(2) No University student may enroll for an Extension course if this would increase his credit hours beyond what the rules allow.

FEES

Academic courses meeting one evening a week require a fee of $5.00 a semester. For Academic courses meeting two evenings a week, the fee is $10.00 a semester.

For Business courses, except where otherwise noted, the fees are: For a single course, $7.50 a semester; for two courses taken simultaneously, $12.00 a semester; for three courses taken simultaneously, $15.00 a semester; for four courses taken simultaneously, $20.00 a semester.

For Engineering courses the fee is $5.00, $7.50, or $10.00 a semester as indicated in the description of the several courses.

The fee does not include the cost of texts or material. The cost of these items varies from $1.00 to $3.00.

The requirements relative to the Law courses accompany the announcement of those courses in this bulletin. (See page 50.)

All fees are to be paid at the time of registration. Checks should be made payable to the University of Minnesota. No fee will be refunded on

account of withdrawal from any course, unless application for refund be made within five days after registration.

PLACES FOR CONDUCTING CLASSES

The classes in Law will be held in the Law Building on the University campus. Most of the classes in Engineering will be held in the Main Engineering Building, Electrical Engineering Building, or the Mechanical Engineering Building.

Other classes in Minneapolis are conducted at the University, at the Public Library, and at the City Hall. Definite locations for each class will be announced in a circular to be published about September 1.

In St. Paul the work will be carried on in coöperation with the St. Paul Institute of Arts and Sciences at the Mechanic Arts High School. Additional accommodations will be provided for in some cases.

NUMBER FOR WHOM CLASSES WILL BE ORGANIZED

Classes will not be organized for a smaller enrollment than twelve, and in some courses a larger registration will be required.

TIME OF MEETING

Classes ordinarily meet at 7:30 and dismiss at 9:30.

ENROLLMENT

Registration takes place the week preceding the organization of classes (September 21-26).

PROGRAM OF CLASSES

Folders will be issued about September 1, giving the program of classes and schedules of meeting places.

COURSES OF INSTRUCTION

The courses of instruction naturally group themselves into four divisions, viz., (1) those corresponding to the regular college courses given in the College of Science, Literature, and the Arts, and conveying credit toward a degree from that college; (2) those furnishing a preparation for Business (most of which also carry credit toward a degree from the above college); (3) Engineering courses; and (4) Law courses. The descriptions of courses will therefore be grouped in this order. The first group will be designated Academic or Collegiate courses.

ACADEMIC OR COLLEGIATE COURSES

The following courses are given Extension students with two purposes in view. First, an opportunity is afforded those who are candidates for degrees, but who are unable to pursue their entire college course in regular residence, to complete a part of their work while otherwise occupied during the day.

Second, the advantage of University training in cultural subjects is offered those who can devote one or more evenings a week to such work, regardless of any desire for University credit.

The General Extension Division is now prepared to offer the following evening courses. Others will be given provided a sufficient registration is assured, usually twelve. Those interested in forming such classes are advised to correspond with the Director.

A special folder announcing specific dates and places for holding classes will be issued early in September. This folder will be sent to all requesting it.

CHEMISTRY

1. Elementary Chemistry — DIETRICHSON

Four credits (two evenings a week); both semesters.

A study of the common chemical elements and their compounds, with an introduction to the modern theories of chemistry. Special attention to be given to the practical applications of chemistry. Lectures, textbook, and laboratory work. Fee, $10.00 a semester.

EDUCATION

1 (3a)*. Brief History of Education — SWIFT

*The number in parentheses is that of the corresponding course in the regular University bulletins.

Four credits (two evenings a week); each semester. Ranks as a junior and senior course in the University. Open to teachers and prospective teachers who have met the college entrance requirements.

The origin and development of schools, more particularly in the modern period, as a preparation for the understanding of the educational systems, theories, and practices of the present. Fee, $10.00 a semester.

2. The Theory of Education QUIGLEY

Four credits (two evenings a week); Monday and Wednesday; first semester. Open to teachers and prospective teachers who have met the entrance requirements, and to school patrons who are interested in the progress of education and whose previous consideration of such topics has fitted them for the work.

This is an introductory course in educational theory. It emphasizes the fundamental principles upon which successful practice depends. Actual observation of school work will give point to the discussions. Current educational literature will be reviewed. An effort will be made to develop a basis for judgment in all matters pertaining to the educative process. Fee, $10.00 a semester.

3 (121a). School Supervision RANKIN

Two credits (one evening a week); second semester. Open for credit to high-school graduates who are also graduates of normal schools, or who have had adequate experience in teaching. Other persons, not desiring credit, may register. Each prospective student must get permission from the instructor before registering for the course.

A course in fundamental principles of school organization, administration, and supervision. It is designed for teachers, principals, superintendents, members of boards of education, parents, or others who are interested in discussions relating to methods of administration and supervision of public school education. Fee, $5.00 a semester.

4 (104). Philosophy of Education QUIGLEY

Three credits (two evenings a week); Monday and Wednesday; second semester. Open to all teachers and prospective teachers who have met the college entrance requirements, and to any mature students who have some basis for appreciation of the work.

An endeavor to correlate the various educational ideals drawn from biological and psychological studies, with special consideration of recent social phases of education. An attempt to answer the question, "What does education mean to-day?" Fee, $10.00 a semester.

5 (142). Industrial Education RANKIN

Four credits (one evening a week); both semesters; Wednesday. Open for credit to high-school graduates who are graduates of normal schools, or who have had adequate teaching experience, or who have had adequate experience as industrial workers. Other persons, not desiring credit, may register. Each person who wishes to take the course should see the instructor before registering.

The course treats of the necessity for vocational training in the public schools. It aims to show the bearing of the facts of universal education and industrial evolution on the methods and material of a system of public schools. Fee, $5.00 a semester.

6 (141). School Sanitation RANKIN

Two credits (one evening a week); first semester. Open for credit to teachers, prospective teachers, and school board members. Those desiring University credit must be eligible for enrollment in the University. Others may take the course without credit. Each student must see the instructor before enrolling.

This course will be conducted by text, by lectures, and by investigation into the problems of school lighting, heating, and ventilation, and other questions of school architecture and management connected with the physical well-being of the pupils.

ENGLISH

1. British Poets of the Nineteenth Century CRAIG

Two credits (one evening a week); first semester.

A course of lectures on the principal poets in the nineteenth century, their significance in the life of the time and in the world's literature.

Those who take this course for credit will be required to have a prerequisite of six hours in the Department of English. Fee, $5.00 a semester.

2 (55). Shakespeare NORTHROP

Two credits (one evening a week); second semester.

An introductory study of Shakespeare's development as a poet and dramatist with reading of representative plays. Emphasis is put upon the gradual evolution of the dramatist's powers as evinced in the whole sequence of his work. Consideration of bibliography and of methods in teaching Shakespeare. Fee, $5.00 a semester.

3. The Short Story in English NORTHROP

Two credits (one evening a week); first semester.

A study of the principles and practice of the short story as evolved in modern literature. The work is aimed not only to teach technic of the form, but to train the student in the actual production of this sort of fiction. Fee, $5.00 a semester.

4 (114). The Recent Movement in Drama FIRKINS

Two credits (one evening a week); second semester.

The course will embrace the dramatic movement (continental, English, and American) from 1870 to the present date, and will emphasize stage drama as opposed to mere literature, thoughtful drama as opposed to mere entertainment, and structural or workman-like drama as opposed to the successes of luck or instinct. Fee, $5.00 a semester.

5. The Poetry of Robert Browning POWELL

One evening a week; first semester.

A study of the inspirational value of Browning's message. Lectures and readings. The topics will include the dramas, lyrics, and *The Ring and the Book*. Fee, $5.00 a semester.

6. Greek in English

For description, see Greek.

GEOLOGY AND MINERALOGY

1 (1). General Geology LEHNERTS

Two credits (one evening a week); first semester. Not a first-year college course.

A synoptical treatment of the materials of the earth and of geologic processes; physiographic, structural, and dynamic geology, with a brief introduction to historical geology. Lectures, laboratory work, field excursions, map study, and conferences. Fee, $5.00 a semester.

2 (4). Geography and Geology of Minnesota LEHNERTS

Two credits (one evening a week); first semester.

The geological study of Minnesota: its rocks and soils; minerals and mines; building stones, clay beds, and glacial deposits; rivers and lakes; scenic features; waterways and water powers; artesian well basins; prairies, forests, and agricultural lands; problems of state-wide interest, such as immigration, agriculture, drainage, reforestation, construction of state highways, utilization of natural resources, and development of old and new industries. Fee, $5.00 a semester.

3 (36). Geography of North America LEHNERTS

Two credits; second semester.

A study of the United States, Canada, Mexico, and Central America: their surface, soil, climate, natural resources, industries, and peoples. Special study and scientific interpretation will be made of the most scenic regions of our continent, such as Yellowstone Park, Glacier Park, the Grand Cañon of the Colorado, the Yosemite Park, Lake Chelan and the Cascade Mountains, the Canadian Rockies, the Panama Canal, etc., etc.

This course is planned (1) for those who can not travel but who wish to acquaint themselves with the peoples, resources, and conditions of our continent; (2) for those who have traveled, but desire further explanation of the conditions and phenomena; and (3) for those who intend to travel and wish to make adequate preparation.

GERMAN

1 (1-2). Beginning German DAVIES

Eight credits (two evenings a week); both semesters. Open to all

who have had no German. Both semesters must be completed before credit is given for the first semester.

Pronunciation, grammar, conversation, and composition; selected reading in easy prose and verse. Fee, $10.00 a semester.

2 (3-4). Intermediate German GEISSENDOERFER

Eight credits (two evenings a week); both semesters. Open to those who have completed Course 1 or its equivalent. Both semesters must be completed before credit is given for the first semester. Students who obtain credit for this course can not receive credit also for Course 3.

First semester, selections from modern narrative and descriptive prose; selected lyrics and ballads. Second semester, a drama of Lessing, Goethe, or Schiller. Fee, $10.00 a semester.

3 (5-6). Prose and Poetry BURKHARD

Eight credits (two evenings a week); both semesters. Open to all with two years of German. Not open to those who have obtained credit in Course 2. Both semesters must be completed before credit is given for the first semester.

Stern's *Aus deutschen Meisterwerken;* Goethe's *Gedichte;* Heine's *Buch der Lieder.* Geography, history, and legend. Review of German grammar throughout the year. Fee, $10.00 a semester.

4 (27-28). Elementary Conversation and Composition KOENIG

Four credits (one evening a week); both semesters. Open to those who are taking or have taken Course 2 or 3. Both semesters must be completed before credit is given for the first semester.

Translation of short English selections; conversation on topics of every-day life; narrative and descriptive essays and letter writing. Fee, $5.00 a semester.

5 (7-8). The Drama GEISSENDOERFER

Eight credits (two evenings a week); both semesters. Open to those who have taken Courses 1 and 2, or Course 3. Both semesters must be completed before credit is given for first semester.

First semester: Modern drama. Plays of Hebbel, Hauptmann, or Sudermann. Study of the present-day drama in Germany. Assigned readings and reports. Second semester: Classic drama. Plays of Lessing, Goethe, or Schiller. Study of dramatic structure. History of the German drama in the eighteenth century. Fee, $10.00 a semester.

6 (29-30). Advanced Conversation, Grammar, and Composition SCHLENKER

Four credits (one evening a week); both semesters. Open to those who have taken Course 5. Required of those who obtain a teacher's recommendation in German. Both semesters must be completed before credit is given for the first semester.

Essays on assigned subjects; oral exercises in German by means of discussions on every-day subjects; debates, narration, and the like. Fee, $5.00 a semester.

GREEK

1 (1-2). First Year in Greek HUTCHINSON

Eight credits (two evenings a week); both semesters. Open to all. Both semesters must be completed before credit is given for the first semester.

First semester: the declensions and conjugations and the simpler rules of syntax, together with sentences based on the vocabulary of the Anabasis, and translation into Greek of idiomatic English sentences based upon the same text.

Second semester: the *Anabasis* itself, an amount equivalent to about a book; Hadley's *Greek Grammar;* etymology reviewed and syntax studied sufficiently to enable the student to proceed confidently in the translation of the text; translation from English into Greek continued. Fee, $10.00 a semester.

2. Greek in English (Greek Literature, Life, and Art) SAVAGE

Two credits (one evening a week); first semester.

This is a course in the literature, life, mythology, and art of the ancient Greeks for which no knowledge of Greek is required. The course will consist of lectures and illustrative readings by the instructor and assigned readings in translation and textbook work by the class; conferences and informal discussion will also be held. The character and influence of Greek culture, especially along the lines of literature, philosophy, and art, will be discussed. Among the lectures to be given will occur the following: Greek Literature and its Influence; Homer and the Homeric Age; Sappho and the Greek Lyric; Greek Plays and the Greek Theatre; Demosthenes and Greek Oratory; Greek Temples; Mythology in Greek Art; The Women of Greece. The course will be richly illustrated by the stereopticon. Fee, $5.00 a semester.

HISTORY

1 (1-2). Medieval and Modern History DAVIS

Eight credits (two evenings a week); both semesters. Open to all.

The growth of France, Germany, and Italy from 800 A. D. to the French Revolution with reference also to social and economic conditions, and to the Medieval church. Fee, $10.00 a semester.

2. American Political History, 1492-1912

Eight credits (two evenings a week); both semesters.

Brief survey of the colonial and the most recent periods, with fuller treatment for the years 1789-1865. Special attention given to political parties, territorial expansion, slavery, and the Civil War. Fee, $10.00 a semester.

LATIN

1 (5). Livy: Books I, II, XXI, XXII. Selections

Four credits (two evenings a week); first semester. Open to those who have completed four years of Latin in preparatory schools. Course 2 must also be completed before credit is given for this course.

Latin composition and review of the principles of Latin syntax. Fee, $10.00 a semester.

2 (6). Plautus and Terence. Selections

Four credits (two evenings a week); second semester. Open to those who have completed Course 1.

The translations of selected plays of Plautus and Terence, with an outline study of the beginnings of the Roman drama. Fee, $10.00 a semester.

3 (9). Roman Life and Architecture GRANRUD

Two credits (one evening a week); first semester.

Chief topics: Roman national characteristics; Rome and the Campagna; the orders of architecture; the Forum: its life and activities; the forums and palaces of the Caesars; the Roman house and furniture; the theaters and the presentation of plays; amphitheaters and gladiatorial combats; the circuses and chariot races; Pompeian baths and Roman thermae; triumphal and sepulchral monuments. Fee, $5.00 a semester.

4 (10). Roman and Italian Life and Art GRANRUD

Two credits (one evening a week); second semester.

Leading topics: the first principles of art; Roman historical reliefs and portrait sculpture from Sulla to Constantine; pictorial technique and wall decoration; mythological paintings; landscape, *genre*, and still life; Italian scenery; typical Italian cathedrals; Roma immortalis, past and present; select masterpieces of Raphael and Michael Angelo. Fee, $5.00 a semester.

Each session of Courses 3 and 4 will consist of an introductory lecture, reports, and discussions. The lectures are illustrated with numerous black and colored lantern slides, and aim to portray the artistic side of the Romans and Italians, to describe the intimate and vital connection of their art and life, and to indicate the supreme importance of their artistic achievements.

MATHEMATICS

1 (1). Higher Algebra, Part I ADKINS

Four credits (two evenings a week); first semester.

The fundamental rules, factoring, highest common divisor, lowest common multiple, fractions, involution, evolution, surds, imaginaries, simple equations with one, two, and several unknown quantities, inequalities, ratio

and proportion, arithmetical and geometrical progressions, quadratic equations, and numerous problems requiring both simple and quadratic equations. The examples and problems are more difficult than those under the same subjects in Elementary Algebra and demonstrations are an important part of the work. Fee, $10.00 a semester.

2 (3). Higher Algebra, Part II — ADKINS

Four credits (two evenings a week); second semester. Open to those who have completed Course 1, or its equivalent.

Variation, quadratic equations reviewed, irrational equations, special higher equations, simultaneous quadratic equations, differentiation of algebraic functions, development of functions (by the method of indeterminate coefficients, Taylor's formula, and the binomial theorem), theory of equations and solution of numerical higher equations, permutations and combinations. Fee, $10.00 a semester.

3 (4). Logarithms and Trigonometry — SLOBIN

Four credits (two evenings a week); first semester. Open to those who have completed Course 2 (Higher Algebra, Part II).

Text, tables, and numerous problems. Fee, $10.00 a semester.

4 (7). Analytical Geometry — SLOBIN

Four credits (two evenings a week); second semester. Open to those who have completed Course 2 or 4 (Advanced Algebra and Plane Trigonometry, or Logarithms and Trigonometry).

Rectilinear and polar coördinates, producing equations of loci whose law of development is known, constructing and discussing such equations, transformation of coördinates, properties of the straight line, the conic sections and higher plane curves by means of their equations. Fee, $10.00 a semester.

PHILOSOPHY AND PSYCHOLOGY

1 (1). Elements of Psychology — WOODROW, EDWARDS

Four credits (two evenings a week); each semester. Open to sophomores, juniors, seniors, and teachers. This course is required for the Teacher's Certificate.

The aims and methods of psychology, the facts and laws of mental life, and the functions of the various mental processes in the adjustment of man and his environment. Fee, $10.00 a semester.

2 (9a). Logic — SWENSON

Four credits (two evenings a week); each semester. Open to those who have had some college work, and teachers.

The nature of knowledge, the laws of reasoning, and the principles and methods of scientific proof. The aim of this course is to produce accuracy of thought as well as to familiarize the student with the logical

grounds of modern science. Textbook, lectures, and reports. Fee, $10.00 a semester.

3 (105). Mental Retardation KUHLMANN, MINER

Two credits; first semester. Two consecutive recitation hours on Saturday morning, 11 to 1 o'clock, and supplementary clinical work and practice training. Open to those who have completed a year of Psychology or who have had an introductory course in Psychology and have taught. A course especially important to teachers.

The nature of backward and exceptional development in children; the measurement of mental development and the detection of defects; the devising of special training for unusual children; the developmental problems of truancy and juvenile delinquency. Especially designed for those contemplating teaching or social work. The clinic in mental development will be at the service of the students, and the observation of backward children forms part of the work. Fee, $5.00 a semester.

POLITICAL SCIENCE

1 (1a). American Government ALLIN

Two credits (one evening a week); first semester.

This course deals with the organization and operation of the national, state, and local governments, and with the elements of political parties. It is intended as a preparation for good citizenship. Fee, $5.00 a semester.

2 (5). Municipal Organization

Two credits (one evening a week); second semester.

This is a course in the study of the modern city. The chief topics are: methods of framing and amending city charters, the initiative, referendum, recall, new methods of making nominations, preferential voting, municipal activities, finance and accounting, municipal inefficiency and corruption, and the proposed reforms. Fee, $5.00 a semester.

RHETORIC AND PUBLIC SPEAKING

1 (41-42). A General Course in Public Speaking RARIG, GISLASON

Four credits (one evening a week); both semesters. Open to ministers, lawyers, teachers, and others who are able to carry the work successfully.

The fundamentals of effective speaking; study and practice of the principles of breathing, voice-production, enunciation, and action; delivery of extracts from the works of well-known writers and speakers; the principles underlying the making of the speech applied in both oral and written compositions. Fee, $5.00 a semester.

2 (11-12). Exposition, Description, and Narration

Eight credits (two evenings a week); both semesters. Open to those

who have completed the equivalent of Course 1-2 in college Composition and Rhetoric.

In the first semester, the analysis of specimens of exposition; short themes and fortnightly essays, with emphasis on careful planning and amplification. In the second semester, the same general plan applied to description and narration. Fee, $10.00 a semester.

ROMANCE LANGUAGES

1 (1-2). Beginning French FRELIN

Eight credits (two evenings a week); both semesters. Open to all. Both semesters must be completed before credit is given for the first semester. Not credited toward a minor in French.

French grammar and reader; modern texts. Fee, $10.00 a semester.

2 (3-4). Advanced French Grammar and Composition

Eight credits (two evenings a week); both semesters. Open to all who would enter the University with two years of French. Both semesters must be completed before credit is given for the first semester.

French grammar; readings from modern authors, including selections from Coppée, Feuillet, and Daudet. Fee, $10.00 a semester.

3 (31). Beginning Spanish

Four credits (one evening a week); both semesters.

The aim of the course is to give the student a practical knowledge of every-day Spanish. Grammar, pronunciation. Easy reading and practice in speaking will be its main features. Fee, $5.00 a semester.

SCANDINAVIAN

1 (101-102). Modern Norwegian Literature BOTHNE

Eight credits (two evenings a week); both semesters. Open to advanced students who have completed Courses 1-2 and 3-4 (Elementary and Advanced Norwegian) and others having equivalent preparation. Both semesters must be completed before credit is given for the first semester.

History of Norwegian literature from 1814 to the present day. Fee, $10.00 a semester.

2 (107-108). Swedish Literature STOMBERG

Eight credits (two evenings a week); both semesters. Open to advanced students who have completed Courses 5-6 and 7-8 (Elementary and Advanced Swedish) and others able to carry the work successfully. Both semesters must be completed before credit is given for the first semester.

History of Swedish literature from 1719 to the present time. His-

tory of the literature and study of modern authors, including Selma Lagerlöf, Geijerstam, Strindberg. Fee, $10.00 a semester.

SCIENCE

1 (1). Botany I — CLEMENTS

Four credits (two evenings a week).

A university course in general botany, designed to meet the needs of students who have not the facilities of a regular laboratory. The course includes field study of autumn flowers, of weeds, trees, and shrubs, and of mushrooms and toadstools; the preparation of herbs and woody plants in garden and nature for winter; the migration of seeds and fruits; the gross structure of plants; the physiology of germination and growth. Fee, $10.00 a semester.

2 (2). Botany II — CLEMENTS

Four credits (two evenings a week).

A continuation of Course 1, taking up the study of the physiology of the adult plant, its methods of making and assimilating food, and its relations to water, light, temperature, etc.; the use of plants in every-day life; classification and relationships of flowering plants; principles of propagation and plant breeding; vegetation of North America. Fee, $10.00 a semester.

3 (119-120). Industrial Botany — TILDEN

Eight credits (two evenings a week); both semesters. Open to those who have had one year of high-school botany, or Botany 1 or 2.

A study of plants as materials and agents in every-day life, with especial emphasis upon their uses in the home, in the industries, and in agriculture and forestry. Attention will be paid to the origin, distribution, and cultivation of useful plants, the nature and use of the products obtained from them, and the processes employed. Fee, $10.00 a semester.

4. School Gardens — CLEMENTS

Four credits (two evenings a week); second semester. Prerequisites the same as for Course 3.

A garden study of the common, useful, and ornamental plants with especial reference to the development of school and experimental gardens, as well as to methods of propagation and cultivation. Stress is laid upon the correlation of the garden work with the life of the school, and a general survey is made of the development of the school garden idea. Fee, $10.00 a semester.

SOCIAL ECONOMICS

Emphasizing human cost, human economy, human efficiency, and human justice, the following courses in Social Economy make an appeal

to both the social worker and the business student. This is true particularly of the business student who desires to be a leader. A far-sighted view of business has always shown that a proper regard for the human factor may increase profits. Furthermore, society is already insisting that the heads of large business enterprises be socialized business chiefs.

Social workers, including teachers, charity workers, public officers, ministers, workers for civic improvement or for peaceable adjustment between labor and capital, will find these courses to be of vocational value.

Certificate in Civic and Social Service

The University now offers a Certificate in Civic and Social Service to those students who complete the following course of study. This certificate will be awarded upon the satisfactory completion of forty-eight credit hours of work as indicated below. The student may complete this course in three years of eight hours a week, but in many cases four years of six credit hours a week will be advisable.

FIRST GROUP

(Twenty-four credits, all required)

In Economics—

- Elements of Economics (2)*
- Industrial History:
  - English (2)
  - American (2)
- Labor Problems:
  - Part I (2)
  - Part II (2)
- Economic Conditions in American Cities (2)

In Political Science—

- American Government (2)
- Municipal Administration (2)

In Sociology—

- Descriptive Sociology (2)
- Elements of Sociology (2)
- Social Pathology (2)

In Psychology—

- Elements of Psychology (2)

*Figures in parentheses indicate number of credits which correspond to the number of class hours a week.

SECOND GROUP

(Subjects aggregating twenty-four credits to be selected)

In Economics—
Labor Problems, Part III (2)
Economic Functions of the State (2)
Elements of Statistics (2)
Economic Conditions in American Cities (2)

In Political Science—
Modern Political Thought (2)
Police Power (2)

In Sociology—
The American People (2)
Modern Social Institutions (2)

In Psychology—
Mental Retardation (2)

In Education—
Philosophy of Education (2)

In English—
The Recent Movement in the Drama (2)

In Rhetoric—
Rhetoric (2)
Public Speaking (2)

The student may take subjects not here mentioned to the extent of six credits.

1. Man and His Living (Elements of Economics) PHELAN
Two credits (one evening a week); one semester.
A general course in the activities, relations, and phenomena that result from human effort to make a living and to live. How to weigh and study the economic facts of life; the aim and goal of economic progress; democracy of well-being; wages, rent, interest, profits, money, taxes, trusts, insurance, and other related topics.
Designed to appeal to business and professional people, social workers, and others who desire to maintain a broad view of life and to be ripe for active citizenship; also to the teacher who aims to enliven and enforce his teaching by bringing it into relation with life outside the school. Fee, $5.00 a semester.

2. American Democracy or Economic Reform PHELAN
Two credits (one evening a week); one semester.
Human progress; the modern teachings found in the Utopian re-

formers; the beginning of modern socialism; the progress of socialism; its relation to anarchism, syndicalism, and trade unionism. The problem of monopoly and its solution through (1) enforced competition, (2) socialism, or (3) public regulation.

Of vital importance to every citizen and to students of human affairs. This course clears up many misconceptions, examines socialism carefully, and emphasizes economic reform through public regulation and education. Fee, $5.00 a semester.

3 (160). Labor and Life (Labor Problems) PHELAN

Two credits (one evening a week); one semester.

The rise of the modern labor problem; woman labor, sweating, minimum wage; child labor, industrial education, vocational guidance, mothers' pensions; unemployment, industrial accidents, industrial disease, poverty.

Employers, employees, social workers, and active citizens should find much of interest and profit in this course, and in the courses numbered 4 and 5. Fee, $5.00 a semester.

4 (161). Labor and the Public (Labor Problems) PHELAN

Two credits (one evening a week); one semester.

Strikes and their prevention, boycotts, injunctions; labor doctrines and theories; types of labor unions, of employers' associations; profit-sharing and coöperation; scientific management; housing and old-age pensions. Fee, $5.00 a semester.

5. Immigration and American Labor PHELAN

Two credits (one evening a week); one semester.

Who is an immigrant; the causes of immigration; the immigrant and the development of America; the effects of immigration on the native population; the effects on labor; the commercial, social, and civic effects on Europe; what shall be done about immigration. Fee, $5.00 a semester.

6. City Welfare PHELAN

One evening a week; one semester.

The functions of city government and their relations to civic and social welfare.

This course appeals to all who would understand the government of their city community. Active citizens and social workers should find this course to be of great practical interest. Fee, $5.00 a semester.

7. The City PHELAN

Two hours (one evening a week).

A general course on the city in relation to human progress and economic justice. The rise of cities; their peculiar problems; city government and human well-being; revenues and expenditures; the city as a laboratory of democracy. Fee, $5.00 a semester.

SOCIOLOGY AND ANTHROPOLOGY

1 (1a). Descriptive Sociology JENKS

Two credits (one evening a week); first semester. Open to advanced students, teachers, and others able to qualify.

Concrete data concerning human associations, showing groups of peoples living in the four grades of culture called savagery, barbarism, civilization, and enlightenment; the activities and institutions natural and peculiar to the several groups studied. Textbook, lectures, and assigned readings. Fee, $5.00 a semester.

2 (113). The American People JENKS

Two credits (one evening a week); second semester. Open to teachers and students who can pursue the work advantageously. Students should see the instructor before enrolling.

The distribution in the United States of the different peoples of the world found here; the natural genius of the peculiar home development of these peoples, and the modifications of this development in America; the dominant physical, mental, moral, and cultural characteristics of each people, and their relative importance to the nation. Textbook, lectures, assigned readings, and thesis. Fee, $5.00 a semester.

ADDITIONAL COURSES

Many advanced courses not listed in this bulletin will be given upon the request of any responsible individual or group willing to organize a sufficiently large class to insure the success of the undertaking.

BUSINESS COURSES

The following courses are arranged with a view to meet the needs of those who desire special training for the higher business positions. Business is rapidly becoming a profession, or rather the business field is opening up several professions, among which are Accountancy, Banking and Finance, Advertising, and Salesmanship. The University through its General Extension Division is attempting to afford a preparation for these professions, as it has long done for the professions of Law, Medicine, Engineering, and the like.

The time appears to be approaching when it will be just as necessary for one to secure special training for business positions as it is now to secure training for the learned professions. It is recognized, too, that the rewards for those trained for the business professions are fully as great both financially and in a social way as they are for those trained for the so-called learned professions. Moreover, experience is proving that the very people whom the General Extension Division are reaching can, while being actively employed during the day, best comprehend and appreciate the kind of instruction the evening classes afford.

The references to *credit* in these descriptions refer only to credit given toward a degree in the College of Science, Literature, and the Arts. The satisfactory completion of any of these courses will entitle one to credit toward the University Certificates in Accountancy, in Finance, or in General Business.

FEES

The fee for a single course is $7.50 a semester unless otherwise stated; for two courses, $12.00 a semester; for three courses, $15.00 a semester.

ACCOUNTANCY

The courses in Accounting, in combination with those in Business Law and Business Administration, are designed to meet the needs of two classes of students, namely, those who wish to prepare to take the State C. P. A. examinations, and those who aim to continue in their present lines of work but who wish to prepare themselves for managerial positions. To both of these classes a thorough training in Accounting, Business Law, and Business Administration is indispensable.

University Certificate in Accountancy

For the student who wishes to pursue either object we recommend that he plan to take the regular course herein outlined, so as to entitle him to the University Certificate now offered upon the completion of that course. The Certificate in Accountancy will be granted to those who

satisfy the entrance requirements of the General Extension Division, and who complete a total of twenty-four credits, distributed as follows:

1. Sixteen credits in courses considered fundamental for any business occupation, viz., Principles of Accounting (4), Business Law (6), Principles of Economics (2), and Business English (4).

2. Eight credits selected from any of the more specialized courses in Accounting.

1. Principles of Accounting "A" PRESTON, ROTZEL

Two credits (one evening a week); first semester.

A fundamental general course treated from the standpoint, first, of the purposes which the science and practice of accounting seek to accomplish; second, of the methods and means by which this object is gained.

Under the first heading, a general inquiry is made into the information necessary for an intelligent conception of a business to various parties in interest, namely, (1) owners, (2) managers, (3) creditors, (4) the State.

Under the second heading, principles are developed which underlie the most efficient methods used to secure and set forth such information and place it upon record.

The above considerations are first applied to a simple business and are gradually applied to more complex and representative business enterprises.

The method of instruction affords the student the greatest amount of practical work. A model proposition is demonstrated by the instructor and the student is asked to work out a similar proposition according to the principles brought out in the demonstration. The propositions as well as their solutions are taken from actual practice.

Designed for those who already have a knowledge of bookkeeping principles. Those not having such knowledge but having the ability and time to do extra work may make special arrangements for such preparation.

Topics: Single and double entry, statement of earnings by comparison of capital at the beginning and end of a period, statement of assets, liabilities, and capital, the merchandise account and its analysis account nomenclature, accruals, deferred charges, classification of loss and gain accounts and of balance sheet accounts. The use of auxiliary ledgers and controlling accounts, exercises in closing the books and in arranging balance sheets and income statements, departmentization of accounts, imprest cash system, contingent liabilities.

2. Principles of Accounting "B" PRESTON, ROTZEL

Two credits (one evening a week); second semester.

For those who have completed Course 1 or its equivalent.

Topics: Further exercises in the preparation of statements, the manufacturing, trading, and profit and loss account, good will, depreciation, the accountant's working sheet, accounts peculiar to a corporation, surplus, sinking funds and reserves, condensed balance sheet and income statement.

3. Accounting Practice and Procedure "A" ROTZEL

Two credits (one evening a week); first semester.

An advanced course following the study of Accounting Principles. The object of the course is twofold: first, to familiarize the student with the peculiar problems of a series of representative businesses, and, second, to afford the student the means to secure that necessary skill which practicing accountants must possess in order to meet the demands made upon them.

The course is made up of a series of graded demonstration propositions which are augmented by practice work for the student. In the discussion of these propositions the most efficient methods of undertaking various kinds of accounting work and of handling volumes of figures are discussed. The matter of speed in securing results is featured and speed tests are given students in order to develop the faculty of thinking and acting quickly. These tests are conducted with the view to the two situations which often arise in practice, namely, where a final statement is demanded in the shortest possible time and where a statement is demanded at a given time and the necessary qualifications inserted in order to set forth and compensate for any information not secured or incorporated in the statement. The entire work is essentially practical, but care is taken that the principles underlying practice are made clear.

4. Accounting Practice and Procedure "B" ROTZEL

Two credits (one evening a week); second semester.

A continuation of Course 3.

5. Cost Accounting PRESTON

Two credits (one evening a week); first semester.

Modern industry demands that each plant be equipped with adequate accounting facilities for ascertaining the cost of operation. These costs are necessary to show, first, the profitableness of each branch of the industry so as to enable the management to push the profitable, and to drop the unprofitable, lines, or to place them upon a paying basis; second, the cost of each article as a basis of price making; third, so far as possible the cost of each operation, so as to enable the management to plan economies in the operation of the plant. This branch of accounting appears to offer the most lucrative field in accounting practice.

Topics: The elements of cost, i.e., prime cost and indirect expense or burden, kinds of cost accounting, continuous process and production order costs. The materials ledger. Methods of accounting for labor. Methods of distributing indirect or "overhead" expense. The machine rate method, and when applicable. Methods of compensating labor. Pre-determined standard costs, and their relation to "scientific management." The cost ledger and its relation to the general ledger.

6. Auditing ROTZEL

Four credits (one evening a week); both semesters.

This course is essentially practical and is intended only for those

whose previous training in the principles of accounting has been sufficient to enable them to be benefited by their advanced work. The chief aim will be to give students the training necessary to enable them to conduct audits and investigations either as private auditors or public accountants; to set up accounts for various purposes as a result of such audits or investigations and to prepare suitable reports thereon.

7. Advanced Accounting Problems ROTZEL

Two credits (one evening a week); first semester.

This course consists of a series of the more difficult problems selected from the C. P. A. examinations and other sources, dealing with the interpretation of business statements with missing data; preparation of statements of condition of insolvent debtors, of reports of trustees, receivers, executors; with the preparation of business statements of holding companies, analysis of condition and operations of concerns going into business consolidations, and the like.

8. Accounting Systems MITCHELL

Four credits (one evening a week); both semesters.

The aim of this course is to apply the principles of account classification to the accounts of a representative of each type of business, showing how its expense and revenue accounts should be classified, its special accounting problems, and the system of accounts and books which will best accomplish the purpose. The type of business to be dealt with will consist of: financial: the commercial bank, savings bank, and insurance company; mercantile: the department store and lumber yard; manufacturing: the flour mill and brewery; municipal utilities: the gas and electric railway companies; public service: the steam railroad and telegraph companies; governmental: accounting systems of municipalities; legal: the accounts and books of executors and receivers. The subject matter will be illustrated by means of the uniform systems of accounts prescribed by governmental and other commissions, by the published report of corporations, and selected C. P. A. problems.

7. Analysis of Corporation Reports MITCHELL

Two credits (one evening a week); second semester.

The purpose of this course is to show how to analyze the published reports of railway, industrial, and other corporations, checking statements in one part against related statements in other parts and against supplementary data furnished in the financial periodicals, so as to extract from such reports the maximum information concerning the financial condition, financial operations, earnings, economy of operation, trend of earnings, and investment strength of the securities of such companies.

FINANCE

The courses in Finance are designed to meet the needs of two kinds of students: (1) those who are preparing for, or who are now engaged in,

such financial callings as banking, corporation management, stock and bond brokerage, credit work, or financial journalism; and (2) business men who wish to utilize in the upbuilding of their particular business all of the modern scientific knowledge of a practical financial nature.

University Certificate in Finance

Those students who wish to secure a thorough knowledge of finance, and an adequate knowledge of general business for a financial occupation, are urged to arrange their registration so as to obtain the Certificate in Finance as offered by the University.

This certificate will be granted to those who complete a total of twenty-four credits distributed as follows:

1. Sixteen credits in courses that are considered fundamental for any business occupation, namely, Principles of Economics (2), Principles of Accounting (4), Business Law (6), and Business English (4).

2. Eight credits to be secured by selecting any of the following specialized courses in Finance: Banking Practice, Commercial Banking, Commercial Credit, Investments, Speculation and the Money Market, Domestic and Foreign Exchange, and Financial History of the United States, of two credits each.

The American Institute of Banking

The American Institute of Banking recognizes the evening courses of the General Extension Division at the University of Minnesota as fulfilling all the requirements of its educational department. Students who complete these courses in Finance are accredited by the Institute without further examination or formality.

By this arrangement, the members of the Minneapolis, St. Paul, and Duluth chapters of the American Institute of Banking may obtain the certificate of the Institute upon completion of Economics (2 credits), Finance (2 credits), and Business Law (4 credits).

The advanced courses in Finance, as outlined below, coincide with the requirements of those who wish to receive the title of Associate from the Institute for postgraduate study.

1. Banking Practice — EBERSOLE

Two credits (one evening a week); second semester.

This course aims to explain the various functions of an up-to-date bank and to teach the methods by which its work is accomplished. A careful survey will be made of the economic basis, legal status, accounting methods, and financial problems of banking as carried on by large commercial institutions having a full complement of banking operations including city, country, and foreign business. The method of presentation comprises reading references, lectures, review questions, and use of the blackboard for all computations.

Topics: The documents created by transactions in goods; the func-

tion of a bank in aiding industry; the steps in organization of national or state banks; corporate powers, rights, and liabilities of stockholders and directors; bank administration and the various officers and departments; deposits, depositors, and receiving tellers; bank reserves and circulating notes; the clearing-house, handling country checks, and transit departments; collections; domestic exchange; foreign exchange; discounts and collateral loans; credit department; how profits are made on government deposits, by note issue, in buying and selling exchange, by analysis of depositor's accounts; accounting methods and general balances; examinations, supervision, and reports; and bank policy from the analysis of local bank reports.

2. Money and Credit — EBERSOLE

Two credits (one evening a week); first semester.

A thorough understanding of the character and functions of money and of the principles of credit is the cornerstone of modern business intelligence. This course in money and credit constitutes an interesting and scientific treatment of the forces that determine value and prices, of the processes of exchange, and of the many forms of media of payment represented by monetary and credit instruments.

Topics: The origin, evolution, and functions of money; the gold standard, forms of money current in the United States; government paper, bank notes, and deposit currency described and analyzed; credit and its effects; the causes of general price changes; various types of standards and currency systems including bimetallism and the gold exchange standard; discount rates, the problem of securing an elastic currency, and the distribution of the world's gold between the nations; the problem of securing an ideal money. Textbook and money-market articles in current newspapers will furnish material for discussion.

3 (145). The Modern Business Corporation — GESELL

Two credits (one evening a week); second semester.

Modern business in all of its major forms is directed through corporate organization. The course in corporation finance is designed to give the student such a knowledge of corporations and their administration as to make clear the general organization of industry and commerce. This is primarily a textbook course, but texts will be extensively supplemented by informal lectures, class discussions, and topical essays.

Topics: The evolution of the private corporation and its relation to other business units; the organization of a corporation; charters and articles of association; directors and officers, manner of their selection, their functions and responsibilities; forms of corporation stocks and bonds and their respective legal and financial characteristics; the marketing of securities; capital and revenues; intangible values; books and accounts; dissolutions, consolidation, and reorganization; trust and holding companies; the taxing of corporations; corporation statistics; the preparation and analysis of corporation reports; the corporation before the law.

4 (142). Investments EBERSOLE

Two credits (one evening a week); second semester.

Stocks, bonds, endowments, annuities, and other forms of investment considered with regard to their security, income, and opportunity for rise or fall in value. The social process of saving and investment; the investment fund; various classes of investments; the criteria of a good investment applied to government, corporation, and real estate loans; railroad, industrial, timber, and mining securities compared; the laws of investment values. Stock exchange operations; money market and other influences affecting prices; analysis of present fundamental conditions. Textbook and interpretation of financial quotations and reports.

5 (142). Speculation and the Money Market EBERSOLE

Two credits (one evening a week); first semester.

This is a lecture course along advanced lines for the benefit of those having considerable knowledge of business and finance. The course is divided into two parts as indicated in the title. The actual operations upon the stock and produce exchanges are used to illustrate the study of speculation, and the course of the markets and the bank rates is closely followed as a basis of deduction in the analysis of cause and effect.

6. Commercial Banking EBERSOLE

Two credits (one evening a week); second semester.

This course treats successively the economic aspect of the several forms of business institutions occupied in the accumulation and investment of capital and in the organization and transfer of credit. Special attention is given to the principles of commercial banking. Federal and state laws and judicial decisions are systematically reviewed, and the nature and extent of public regulation discussed.

GENERAL BUSINESS COURSES

These courses are planned to supplement and to be taken in connection with the more technical course in Accountancy and Finance, as well as to serve those not desiring to specialize in those subjects.

It is likely that certain of the subjects herein outlined will be more fully developed and later form groups in themselves to furnish a preparation for one or more distinctive business callings. It is hoped thus to furnish a preparation for the profession of Advertising, and of Salesmanship, and for work in Retail Merchandising, and in Transportation.

The University Certificate in General Business

This certificate will be granted those who successfully complete a total of twenty-four credits distributed as follows: Business English (4), Business Law (6), Elective Subjects (10), Elements of Economics (2), Business Organization (2).

It is suggested that those looking forward to Salesmanship and Sales Management pursue the following elective subjects: Sales Correspondence (4), Salesmanship (2), Advertising (2), Principles of Retail Selling (2).

It is also suggested that those looking toward Office Management take the following elective subjects: Sales Correspondence (4), Business Organization (2), Accounting (4).

The following electives should be taken by those aiming to fit themselves for Retail Merchandising: Principles of Retail Selling (2), Distribution of Goods (2), Accounting (2), Advertising (2), Salesmanship (2).

1 (1a). Elements of Economics GESELL

Two credits (one evening a week); first semester.

This course aims to ground the student in principles that are basic in all economic discussions. The study naturally centers in value and the laws of valuation under the various applications.

Topics: Utility and valuation; price and the laws of price as applied to competitive and monopolistic conditions; price and the cost of production; the factors of production; the law of diminishing returns; division of labor and its relation to the development of industry; the forces and factors involved in the concentration of industry, including the difference between the agricultural and the mechanical industries; wages, rent, interest, capitalization, enterprise, and business profits; finally, some attention is given to money, credit, banking, and international trade. Fee, $5.00 a semester.

2 (3a). Practical Economic Problems (Advanced Economics) GESELL

Two credits (one evening a week) for one semester or four credits (one evening a week) if carried both semesters.

The aim of this course is to study economic principles in their relation to some of the leading questions of to-day.

Topics: Taxation: the tariff, general property tax, corporation taxes, income taxes; labor problems: unionism, trade agreements, strikes and lockouts, law in reference to labor unions, injunctions, employers' liability, workmen's compensation; railway problems: theory of rate-making, state and federal control; monopoly problems: economies of big business, intensive study of U. S. Steel Corporation, Sherman Anti-Trust Act, and important legal decisions relating to restraint of trade.

3. Business Law (a): Contracts and Agency HOUCK, SINCLAIR, YOUNG

Two credits (one evening a week); first semester.

This is the fundamental course in all business law since the general rules of contracts apply to all business relationships.

Topics: Contracts: Definition of a contract; offer and acceptance; special formality; consideration; capacity of parties; contractual powers of minors, of persons mentally deficient, and of married women; reality of consent, mistakes, misrepresentation, fraud, undue influence, force,

legality of object; the operation of contracts; assignment of contracts; interpretation of contracts; methods of discharging contracts.

Agency: Methods of forming agencies; methods of terminating agency; the rights and obligations of principals, agents, and third parties. Text, lectures, and cases.

4. Business Law (b): Sales and Negotiable Instruments

HOUCK, SINCLAIR, YOUNG

Two credits (one evening a week); second semester.

Topics: Sales: Sales of personal property; definition of a sale and its distinction from a bailment; when the title passes to the buyer; what title passes; rights of the seller (a) to set the contract aside on the ground of fraud, (b) to enforce lien for the purchase money, (c) to obtain stoppage in transit; rights of the purchaser (a) to demand goods of a certain quality, (b) to demand warranty of the purchaser's title.

Negotiable Instruments: Nature and characteristics: (a) definitions and characteristics, (b) uniform negotiable instrument law; form: (a) what a negotiable instrument must and must not contain, (b) non-essentials, (c) effect of blanks and delivery; negotiation: (a) negotiation, indorsement, and delivery, (b) holder in due course and his rights; maker's and acceptor's contract: (a) maker's contract on a promissory note, (b) acceptor's contract on a bill of exchange, (c) presentment of a bill of exchange for acceptance; drawer's and indorser's contract: (a) drawer's contract on a bill of exchange, (b) indorser's contract on a bill or note, (c) presentment for payment, (d) notice of dishonor, (e) protest, (f) checks, (g) position of indorser after liability is fixed. Text, lectures, and cases.

5. Business Law (c): Partnerships and Corporations HOUCK

Two credits (one evening a week); first semester.

Topics: Partnerships: Formation of partnerships; articles of co-partnership; methods of terminating partnerships; rights and obligations of partner (a) toward his co-partners, (b) as an agent of the firm, (c) toward the firm's creditors, (d) for an accounting; special partners; limited partnerships.

Joint Stock Companies: How distinguished from ordinary partnerships; how like ordinary partnerships; statutory requirements.

Corporations: Formation of corporations of various classes; terminations of corporations; membership in corporations, methods of transferring interest, fraudulent issuance of stock by corporate officers; rights of stockholders (a) to dividends, (b) to inspect and control corporate affairs; liabilities of stockholders (a) on stock subscriptions, (b) to pay assessments, (c) for the corporate debts; the doctrine of ultra vires; rights and obligations of corporate directors; corporate mergers and consolidations; domestic and foreign corporations. Text, lectures, case assignments, and class discussions.

6. Business Law (d): Real Property, Common Carriers, Bankruptcy
HOUCK

Two credits (one evening a week); second semester.

Topics: Real property: Estates in land, estates held jointly or in common, equitable estates, relative rights of adjoining owners, trespass, easement, sales of real property, the contract to sell, conveyances, wills, mortgages, and liens; landlord and tenant, the lease, assignment and subletting, rent, and remedies for non-payment.

Common Carriers: The obligations and liabilities of common carriers of goods; the modification of liability by contract; delivery, bills of lading, liabilities of public carrier of passengers, baggage; telephone and telegraph companies.

Insolvency and Bankruptcy.

7. State Regulation of Business YOUNG

Two credits (one evening a week); second semester.

This course is a study of the changed and changing conditions of business from the standpoint of public relations and state regulation. The various phases of the subject are investigated and estimated.

Topics: The general relation of the State to economic interests; the relation between federal and state regulation of commerce; protection against fraud: weights, measures and packages, license and inspection, substitutes, imitations and adulterations, forms of business liable to abuse, fidelity of agents and trustees; protection of debtors: collection of debts, usury laws, bankruptcy legislation; protection of laborers: hours, wages, blacklisting, and judicial decisions; combinations of laborers: legality of strikes, intimidation and coercion, strikes and trusts; combinations of capital: restraint of trade, manipulation of prices, trusts and monopolies, corporations; business affected with a public interest: regulation of charges, requirements of equal services, public convenience; qualified property: navigable water and riparian rights, mill dams, game and fish, waste of natural wealth; compulsory benefits: measures against improvidence, compulsory industry and improvement; regulation of professions and trades.

8. Principles of Retail Selling NEYSTROM

One evening a week; first semester.

A special course prepared with reference to the needs of those interested in the retail business, and for those who desire a direct, practical statement of the essentials of successful retail salesmanship. It is primarily a course for retail salespeople.

Topics: The retail store and its problems generally stated; the functions of the salespeople; the bases of successful salesmanship; methods of showing and demonstrating goods; meeting the customer's objections; making the most of the store, its organization and its equipment; interpreting the customer's wants; store policies and the policies and the principles underlying them; standards of efficiency in a retail store; eliminating the wastes and leaks, etc. The subject matter will be varied to suit

the needs of the members of the class as far as possible. The course aims to be intensely practical. Its sole purpose is to help the student who takes it to make of himself or herself a more efficient salesman or saleswoman. Facts and concrete matter rather than theories will be presented. Suggestions that may be put into practical every-day use will be given at each meeting. The principles of the course will be illustrated by actual sales practice and demonstration work.

9. Distribution of Goods NEYSTROM

One evening a week.

A course outlining the organization and practice of trade. The commercial methods of leading American industries are described and the distribution of goods followed step by step as the goods are carried towards the ultimate consumers. Special emphasis is laid on retail distribution, and the course should prove of great value to those interested in the retail business from the goods and merchandising sides.

Topics: The organization of the market; the agencies for the distribution of goods and the functions of each; the problems of distribution from the standpoint of the producer of raw materials; the manufacturer, the jobber, and other middlemen, and the retailer; the customary channels of distribution for typical products; variations and modifications in the customary channels of trade; mail-order selling, direct-from-producer-to-consumer selling, coöperative buying, and coöperative selling; market organizations: boards of trade, produce exchanges, chambers of commerce, trade associations, business coöperations, and market service organizations; analyses of the costs of the distribution of goods; market control: legal, business, and social aspects; trade-mark development; the operation of competition, custom, fashion, and chance in marketing.

10. Salesmanship CORBETT, SCHONEK

One evening a week; each semester.

A course for insurance men, specialty men, travelling salesmen. Lectures and demonstrations on the principles underlying successful salesmanship, as follows: the proper approach; securing attention; arousing interest; creating desire; closing the sale; the psychology of salesmanship; the use of suggestion in selling; the use of argument.

The chief feature of the work will be the demonstration sales. So far as possible each student will be given an opportunity to take part in a sufficient number of demonstrations that he may apply the principles laid out in the course.

11. Business English

One evening a week; both semesters.

Not a lecture course nor a dry, prosy study of technical English grammar and composition but a new, intensely interesting and practical application of the custom of our speech to every-day conversation and writing. The letter will be used as the basis of all written work because it is the form most common in business and is so intimate and personal that fun-

damental principles are more quickly discovered and definite results more easily obtained. Special attention will be given to letters of application, complaint, collections and credit, and other forms of commercial correspondence that do not deal directly or indirectly with Sales. Students will be expected to write letters and take their part in the weekly discussion. Some knowledge of English grammar and composition is a prerequisite to this course.

12. Sales Correspondence

One evening a week; both semesters.

Studying to put "pull" into sales letters is the purpose of this course. The work is not based on theories, but upon the practical application of fundamental principles. A careful analysis is made of letters that have been big winners and a knowledge of the psychology of sales correspondence is secured and then practically applied. Letters written by students and actually used in sales campaigns or in their daily office work are studied, criticized, and tested. The work is made intensely practical and is vitally interesting because it deals with the daily difficulties and problems of the student. Every phase of sales correspondence is carefully investigated, studied, and worked out in letters so that every effort is put forth to make the course broad, suggestive, practical. A course in Business English or its equivalent is a prerequisite to this work.

13. Elementary Advertising

One evening a week; first semester.

This course is intended for those who desire sufficient knowledge of advertising to prepare reasonably satisfactory newspaper copy, circulars, and booklets. Careful analysis of the fundamental elements that enter into the preparation of good copy will be made. This will be done by association and comparison, and a thorough study of advertisements and advertising literature. The work will be practical, thorough, and intensely interesting. A good knowledge of English is a necessary qualification for this course.

14. Advertising MARTIN

Two credits (one evening a week); second semester.

A study of advertising from a new angle. The student puts himself in the place of one having a product for sale, or one called upon to arrange an advertising campaign.

From the first lesson to the last each lecture is so planned as to give the methods pursued in planning and conducting each step in an advertising campaign. When the student has completed the course, he will have planned, in all the details, one complete advertising campaign. Each student will be furnished with pamphlets of these lectures, which will give references to practically everything which has so far been published on subjects taken in the course. In this way the experience of possibly three hundred of the leading advertising men of this country will be available to the student. The outline for the course has been examined by

some of the leading advertisers of America, and the course will be conducted by a man of ten years' experience in conducting advertising campaigns.

Topics: The student, after choosing the article which he proposes to advertise, will analyze the article, analyze the market, analyze the channels of distribution, analyze the advertising media, analyze the selling points, and determine in each case which are the best suited for his product. The student will next determine the amount of money it will be advisable to spend, will take up the subject from the standpoint of psychology, and then plan a complete advertisement for each of the media chosen. Throughout the campaign special plans for investigating the advertisability of the product will be outlined, and the last lecture will discuss the different methods of estimating the results of the advertising. Fee, $10.00 a semester, including lesson pamphlets.

15. Business Organization PRESTON and special lecturers

A study of the organization of industry as a whole, and the relationship of different types of business. The organization of typical business units, with reference to, first, the organization of the ownership with special reference to the corporation, the promotion of corporations, the corporation charter, financing the corporation, the function of the underwriters, a classification of stocks and bonds, the comparison of a few typical state corporation laws; second, the internal organization of typical concerns with reference to a division of authority and responsibility; sales organization, sales planning, sales management, the organization of the advertising department, credits and collections, the organization of the production department, Taylor's system of scientific management, Emerson's efficiency system, wage systems and their relation to efficiency.

16 (73). Railway Traffic and Rates (Railway Problems) GESELL, KUEMPEL

Four credits (one evening a week); both semesters.

Topics: Theory of railroad rates; freight classifications; "make-up" of tariffs, both local and joint; authorities under which joint tariffs are published; rail and water versus all-rail rates; basis for principal present-day rates; car service and efficiency; accounting of freight revenue; fast freight lines, tariffs and guide of billing books; privileges, "transit and storage"; principal commodity rates: lumber, live stock, grain products, etc.; conditions governing proper issuance of bills of lading; tracing of freight; methods of compiling and presenting claims; conditions imposed by federal and state laws on the acceptance of freight; study of conference rulings of the I. C. C.; federal control: Interstate Commerce Act of 1887, Elkins Amendments of 1903, Hepburn Act, 1906, Mann Act, 1910; Long and Short Haul Clause; personal and local discrimination; conflict of federal and state control.

ENGINEERING COURSES

The need of a special training in engineering has been steadily increasing each year. Every branch of the profession has been calling for the services of trained men.

The General Extension Division is prepared to offer subjects for evening class work to meet this demand. The courses have been so arranged that students may take up the work for which they are best fitted and follow a definite course. The subject of engineering is one that needs to be thoroughly studied and no intervening step can be neglected. In these evening classes special attention will be paid to the needs of men working in shops and other industrial and manufacturing establishments, to the end that such men may have added to their practical training a technical and theoretical knowledge which will enable them to advance more rapidly in their chosen line of work. It is therefore advisable that students should consult the instructor in charge of the class sought as to whether they can pursue the subject with profit to themselves.

The courses also offer an opportunity to college graduates who may wish to specialize in some subject not covered in their regular college work.

The following subjects will be offered for the year 1914-1915:

ARCHITECTURE

1. Architectural History — MANN

One evening a week; both semesters.

Twelve lectures illustrated with lantern slides, covering the ancient and Renaissance periods. Fee, $5.00 a semester.

2. Elementary Architectural Design — WALTON

One evening a week; both semesters.

Shades and shadows and wash rendering. Architectural elements such as doors, windows, mouldings, and the architectural orders; lectures and drawing. Open only to high-school graduates who have had mechanical drawing, or to those who have had one year or more in an architect's office, or who have had equivalent drafting experience. Sixteen weeks. Fee, $7.50 a semester.

3. Intermediate and Advanced Architectural Design — MANN

One evening a week; both semesters.

Regular Class A and Class B competitions of the Society of Beaux Arts Architects. Open only to those who have had at least two years' experience in an architect's office, or the equivalent in attendance at a regular architectural school. From about November 1 to about May 1. (Dates will be announced later.) Fee, $10.00 a semester.

CIVIL ENGINEERING

4. Reinforced Concrete

One evening a week; both semesters.

Covers the elements of the theory and practical design of reinforced concrete structures including floors, roofs, walls, columns, foundations, and retaining walls. Fee, $7.50 a semester.

5. Structural Design

One evening a week; both semesters.

This course will include a treatment of structural mechanics and stress computation, and the elements of the principles and practice governing the design of tension and compression members, beams, girders, and columns. Fee, $7.50 a semester.

(*Prerequisite:* An elementary working knowledge of mathematics through trigonometry, and some knowledge of elementary physics.)

DRAWING AND DESCRIPTIVE GEOMETRY

6. Map Drawing — ZELNER

One evening a week; second semester.

(a) Farm and city plats. (b) Real estate display maps. (c) Landscape architects' maps. (d) Topographic and hydrographic symbols. Fee for course, $7.50 a semester.

7. Lettering and Titles for Engineers — ZELNER

One evening a week; first semester.

Principally freehand Reinhardt lettering. Title lay outs and lettering. Fee for course, $7.50 a semester.

8. Plane Surveying — CUTLER

One evening a week; second semester.

Elements of plane surveying relating to methods of chain, compass, transit, and stadia surveys; methods of keeping field notes; determination of area of irregular plots; care, use, and adjustment of instruments; methods of subdivision of the United States public lands. Fee, $7.50 a semester.

9. Sheet Metal Drafting — ROWLEY

One evening a week; first semester.

A course covering the designing and drawing of sheet metal patterns; methods of laying out patterns; patterns for boiler plate, cupola, and blast-furnace work, heating and ventilating ducts, cornice work, hoppers, etc. Fee, $7.50 a semester.

MATHEMATICS

10. Elementary Applied Mechanics — BROOKE

One evening a week; first semester.

A short, practical course in elementary mechanics designed to meet the needs of students who have had a limited training in mathematics. Numerical calculation, simple graphical calculations, forces, simple machines, work, power, energy, strength of materials, elementary hydraulics and pumps. Fee, $5.00 a semester.

11. Strength of Materials — BROOKE

One evening a week; second semester.

An elementary course on the strength of materials, designed to follow the course in applied mechanics. The subjects to be treated are: the properties of materials, stress and strain, elastic and ultimate strength, deformations, principle of moments, moment of inertia, simples stresses, shear, riveted joints, the general elementary theory of beams, columns, and shafts. Fee, $7.50 a semester.

12. Trigonometry — EDWARDS

One evening a week; both semesters.

This course is designed for those who have had the subjects of algebra and geometry and wish to pursue civil engineering studies. The solution of right and oblique triangles will be thoroughly discussed and practical plane surveying problems will be given special attention. Fee, $5.00 a semester.

13. Shop Mathematics — EDWARDS

One evening a week; both semesters.

This course is designed to meet the needs of shop men, and affords an opportunity to take up engineering work of a higher grade. Practical shop problems will be thoroughly discussed. This course together with one in drafting is essential for all other engineering branches. It will cover the subject of fractions, decimals, percentage, weights of materials, areas and volumes, thread cutting, gearing, belts and pulleys, the milling machine, and a general drill in equations and the use of formulae. Fee, $5.00 a semester.

ELECTRICAL ENGINEERING

14. Elementary Electricity — EDWARDS

One evening a week; both semesters.

This course will start with the simple laws of magnetism and advance through the theory of direct current machinery. Special attention will be given to direct current motors and generators, armature windings, commutators, and wiring diagrams. The course will be of value to those who wish to take up the study of alternating current machinery and power plants. Experiments will be made throughout the course. Fee, $5.00 a semester.

15. Elements of Alternating Currents — TURNER

One evening a week; both semesters.

An experimental study of alternating currents, including the modifications of Ohm's law to include effects of inductance and capacity, the fundamental principles of the impedance coil, transformer, generator, motor, telephone transmitter and receiver, and the like. The treatment will lead up gradually from simple explanations, and the necessary mathematics will be developed as required. Fee, $7.50 a semester.

16. Power Station Electrical Apparatus RYAN

One evening a week; first semester.

A study of the problems involved in the operation and maintenance of direct and alternating current generators and motors, switchboards, electrical measuring instruments, and storage batteries. This course is designed for men connected with central stations and isolated plants. Fee, $7.50 a semester.

17. Elements of Telephony SHEPARDSON

One evening a week; second semester.

Nature of voice sounds, construction and operation of receivers and transmitters, reading blue-prints and circuits, magneto and central-energy circuits, the electro-magnet as used in telephony, batteries and other generating apparatus, signalling apparatus. Some previous knowledge of alternating currents is desirable, but not absolutely necessary. The treatment will be elementary, using only simple mathematics. Experimental illustrations will be given so far as practicable. Fee, $7.50 a semester.

EXPERIMENTAL ENGINEERING

18. Concrete Materials: Selection and Tests McMILLAN

One evening a week; first semester.

This course will cover the selection of materials entering into concrete, their properties and the tests to be applied. A study will be made of the proper combinations to obtain the best mixtures for given constituent materials at the lowest cost. Local materials will be used and those pursuing the course will make their own specimens and perform all the tests. Fee, $7.50 a semester.

19. Engine and Power Plant Testing SHOOP

One evening a week; first semester.

This course is intended for stationary engineers who wish to become more efficient in their line of work. The course will consist of lessons supplemented by experimental demonstrations illustrative of certain portions of the work. Actual problems arising in power plant testing will be worked out in class with complete explanations and instruction for their solution. The laws of mechanics, heat, power, work, and energy will be applied to engine and power plant testing. Fee, $7.50 a semester.

MECHANICAL ENGINEERING

20. Automobile Construction — SHIPLEY

One evening a week; first semester.

A series of illustrated lessons covering the various types of automobile motors, transmissions, ignitions, and accessories. This course is designed especially to meet the demands of automobile owners. Fee, $7.50 a semester.

21. Heating and Ventilating — MARTENIS

One evening a week; first semester.

The course will cover present heating and ventilating practice and is designed for heating contractors and others desirous of obtaining a fundamental knowledge of the subject. The plan of instruction includes a study of heat; methods employed for heating and ventilating buildings of various kinds; piping systems and temperature regulation. Fee, $7.50 a semester.

22. Plumbing — MARTENIS

One evening a week; second semester.

This course is designed to meet the needs of the practical shop man and will cover the principles of plumbing and the best practice in use at the present time. It is hoped that a standard text will be available. Fee, $7.50 a semester.

23. Steam Boilers and Engines — MARTIN

One evening a week; first semester.

Theory and practice of steam boiler operation; settings and accessories; types of boilers, chimneys, smoke prevention, mechanical stokers and economizers. Mechanism of the steam engine, work in the cylinder, steam distribution, effect of reciprocating parts. Indicator and indicator cards. Horsepower from cards; valve diagrams and valve setting. Exercises and problems. Fee, $7.50 a semester.

24. Pattern Making — RICHARDS

One evening a week; first semester.

A series of lessons on the theory and practice of pattern making. Open to mechanics and apprentices who are able to take the work with profit to themselves.

A further course is offered to teachers who are now teaching manual training and desire to take up a more advanced branch of the work. This course can also be taken advantageously by those of mature years who wish to become teachers of manual training. Fee, $7.50 a semester.

25. Gas Engines and Producers — MARTIN

One evening a week; first semester.

Principles of operation of two-cycle and four-cycle engines; cylinder construction and arrangement, system of speed control, ignition,

and cooling. Application of the indicator and consideration of indicator diagrams.

A study of the power gas producer, including suction and pressure types for various fuels; construction and operation of the generator and accessory apparatus. Application to various industrial purposes. Fee, $7.50 a semester.

26. Mechanical Drawing FRENCH

One evening a week; first semester.

How to make drawings and how to read them. This course will be given to meet the needs of the individual. It includes the making of drawings or reading from blue prints or both. The work is intended for beginners. Fee, $7.50 a semester.

COURSES IN LAW

SCOPE OF COURSE

University Extension courses in substantive law are given under the immediate direction of the Faculty of the Law School. They are designed primarily for the benefit of those persons who desire legal instruction for the purpose of better qualifying themselves for business careers. They do not lead to a degree.

TIME AND PLACE OF INSTRUCTION, AND TEXTBOOKS

All instruction in Law will be given at the Law Building of the University of Minnesota, Minneapolis. Class exercises will be held on the evening of each week day, excepting Saturday, during the session, beginning at 7:30 and extending not later than 9:30.

For the present, at least, textbooks used by students in pursuing the courses will be loaned by the University free of charge, upon payment of a deposit fee not to exceed $5.00. This deposit will be repaid upon the student's returning in good condition all of the books loaned to him during the year.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Extension courses in Law are in general the same as for the day courses in the College of Science, Literature, and the Arts; namely, either (1) special entrance examinations, (2) graduation from an accredited school in Minnesota, or (3) evidence, by certificate, of equivalent scholastic preparation.

By special arrangement, persons who are at least twenty-one years of age, and who do not comply with the general requirements as above outlined, may enter the evening courses in Law. In such cases, it will be necessary for applicants to satisfy the department that they are adequately fitted to carry the proposed work.

UNIVERSITY CREDIT FOR EXTENSION WORK IN LAW

Students who show special aptitude may receive credit in Extension courses towards a degree in Law. Any student who has completed with marked success any Extension course will be admitted to the regular Law School examination in that subject, and, if successful, will be given full credit. After securing credit for all the subjects taught in the Extension course in Law, and thereupon completing at the Law School of the University of Minnesota the various procedural courses required for a degree, a student will be entitled to graduation, provided that previous to taking these examinations he could have qualified as a regular student in

the Law School by having completed two years of academic work in an institution of collegiate rank. It is possible also for a student who successfully completes the Extension courses in Law to qualify for passing the bar examination for admission to practice, by taking the regular practice work in the Law School during an additional year.

EXAMINATIONS AND CERTIFICATES

Upon completion of each of the courses above described an examination will be held. Students who successfully pass all examinations given during the three years' course will receive a certificate showing that they have completed the University Extension Course in Law.

FEES

The tuition fee for the regular Extension Course in Law is $50.00 a year, payable one half at the beginning of the first semester and one half at the beginning of the second semester. Students taking less than the whole course will be required to pay at the rate of $5.00 for each recitation a week for each semester. No other charge of any kind will be made excepting the deposit required for the safe return of textbooks loaned, as indicated above.

For further particulars apply to Director of the General Extension Division, University of Minnesota, Minneapolis.

COURSES GIVEN IN 1914-15

The complete Extension curriculum in Law will extend through three years, with six lecture periods a week each year. The courses given are described in outline below.

First Year

1. Personal Property — FLETCHER

One hour, first semester.

This course includes a consideration of the distinction between real and personal property; the acquisition of title to personal property other than by sale; accession, confusion; gifts; finding; property rights of bailor and bailee; possessory liens and pledges.

2. Contracts

Two hours throughout the year.

This course deals with the general principles of the Law of Contracts. The student considers fully the rules governing the making of contracts, their operation and discharge, and the legal consequences of a breach of contract. The general purpose of the course is to afford a foundation for the later study of the important kinds of specific contracts, such as

those of agency, bailments, partnership, commercial paper and sales, which are considered in separate courses.

3. Torts PAIGE

Three hours, first semester.

This course treats of trespasses to persons and property; the conversion of goods; slander, libel, and malicious prosecution; deceit; negligence; and statutory torts.

4. Real Property FLETCHER

Three hours, second semester.

This course covers a general treatment of estates in real property, the rights incident to ownership of realty, powers, uses and trusts, easements, and the methods of transferring rights in real estate.

5. Bailments and Carriers FLETCHER

One hour, second semester.

This course includes the general law of bailments, treating specially of bailments to pledgees, inn-keepers, and common carriers.

Second Year

6. Torts PAIGE

Three hours, first semester.

(This course is identical with that given to the first-year class as above described.)

7. Real Property FLETCHER

Three hours, second semester.

(This course is identical with that given to the first-year class as above described.)

8. Bailments and Carriers FLETCHER

One hour, second semester.

(This course is identical with that given to the first-year class as above described.)

9. Equity

Two hours, first semester.

This course treats of the general nature of equity jurisdiction, and specifically of equitable rights and remedies connected with torts, trespass and nuisance; of the specific performance of contracts; and of the cancellation and reformation of contracts by reason of accident, mistake, or fraud.

10. Trusts

Two hours, second semester.

This course deals with the nature and requisites of trusts; the duties and liabilities of the trustee; the rights and remedies of the beneficiary; constructive trusts; charitable trusts; and equitable liens.

11. Wills and Administration PAIGE
One hour, first semester.
This course treats of testamentary capacity; execution, revocation, and republication of wills; descent; probate of wills and administration of estates.

Third Year

12. Equity
Two hours, first semester.
(This course is identical with that given to the second-year class as above described.)

13. Trusts
Two hours, second semester.
(This course is identical with that given to the second-year class as above described.)

14. Wills and Administration PAIGE
One hour, first semester.
(This course is identical with that given to the second-year class as above described.)

15. Insurance VANCE
One hour, second semester.
In this course are considered the nature and history of the insurance contract; the doctrines of insurable interest, warranties and representations; waiver and estoppel; rights of parties to the contract; and construction of the standard policy.

16. Damages MORGAN
One hour, first semester.
This course considers the general principles of damages; compensatory, nominal, and exemplary damages; direct and consequential damages; physical pain and mental anguish as elements of damages; aggravation and mitigation of damages.

17. Private Corporations ABBOTT
Two hours, first semester.
This course deals with the nature, creation, and citizenship of corporations, *ultra vires* contracts and acts, stock issues, rights and liabilities of stockholders, officers and agents of corporations, and rights of creditors.

18. Partnership PAIGE
One hour, second semester.
This course deals with the nature and formation of the partnership relation, and the rights and liabilities of the partners, both *inter se* and as to third parties.

19. Negotiable Instruments PAIGE

Two hours, second semester.

This course considers formal and essential requirements of negotiable instruments, and the nature of the liability of the respective parties thereto; acceptance; endorsement; transfer; presentment; notice of dishonor; the Negotiable Instruments Law.

AGRICULTURAL EXTENSION DIVISION

For details relative to Extension Courses offered by the College of Agriculture, address the Agricultural Extension Division, University Farm, St. Paul.

OTHER BULLETINS

In addition to the present publication, the General Extension Division also issues the following:

Bulletin of Correspondence Courses

Bulletin of Extension Lectures

They will be sent free to any interested person upon request. All inquiries should be addressed to the

General Extension Division,
The University of Minnesota,
Minneapolis

ENROLLMENT 1913-1914

MINNEAPOLIS

ACADEMIC COURSES—279

Aasen, Anders, Clergyman, Immanuel Norw. Evang. Luth. Church
Adams, Emma N., Teacher, Public Schools
Adams, Margaret C., Washburn-Crosby Co.
Ahlers, Harriet, 406 11th Ave. S. E.
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Anderson, Margaret, 816 9th Ave. S. E.
Anderson, Samuel H., Am. Bridge Co.
Andrews, G., Minneapolis Journal
Angell, Aubrey E., J. S. Bradstreet & Co.
Asser, Victor G., Twin City Life Ins. Co.
Aves, Edith F., Secretary, Graham Hall
Baldwin, Lora O., G. W. VanDusen & Co.
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Boutelle, Louisa E., Teacher, Public Schools
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Brimi, Freda E., Gamble Robinson Comn. Co.
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Lavine, Lydia C., L. S. Donaldson Co.
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McLachlan, Katherine M., Teacher, Public Schools
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Quail, Margaret, Teacher, Public Schools

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Rippey, Owen, Smith's Oil Co.
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Thompson, Shirley P., Mpls. Elec. & Const. Co.
Thomson, Margaret M., Pillsbury Settlement House
Thornton, Beatrice, The Leamington
Thornton, Katherine, The Leamington
Thorshaug, Olaf, Long, Lamoreaux & Long
Tillisch, Mary, Washburn Home
Tinkham, Bertha, Ingleside Apts.
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Tomlinson, Mabel E., Teacher, Public Schools
Townsend, Sprague P., Student, Univ. of Minn.
Toy, Bertie Alice, City Hospital
Tracy. C. Paul, Mgr. City Sales, Carnegie Fuel Co.
Troup, Robert, John C. Johnson Co.
VanDusen, Wm. P., Bacteriologist City Filtration Plant
Wahlquist, Ebba L., Mpls. Civic & Com. Assn.
Wallace, Edith M., Teacher, Public Schools
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Williamson, Eva, Teacher, Public Schools
Wilson, Alonzo W., Student, Univ. of Minn.
Wolfsberg, May E., Teacher, Kenwood School
Yahr, Cora A., Teacher, Public Schools
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Young, Katherine, 1120 6th St. S. E.
Zickrick, Theo, Teacher, Public Schools

BUSINESS COURSES—422

Ainsworth, Lee F., Teller, First National Bank
Ainsworth, George A., 247 Plymouth Bldg.
Anderson, Albert G., S. T. McKnight Co.
Anderson, Bernhardt C., 1508 2nd Ave. S.
Anderson, Carl B., City Treasurer's Office
Anderson, Harold B., Russell-Miller Milling Co.
Anderson, Harry V., Asst. Bkpr., Grimsrud Shoe Co.
Appleard, Elizabeth, Buyer, Mpls. Dry Goods Co.
Armstrong, Arthur, Deere & Webber Co.
Armstrong, G. H., Janney, Semple, Hill & Co.
Armstrong, Nye B., Hennepin County Savings Bank
Arneson, George R., Lake Erie & Western R. R.
Ashmun, Clifford, Wells & Dickey Co.
Aslesen, Arthur C., Mpls. Artificial Ice Co.
Asselin, Percy J., Soo Line
Austin, Bevins, The Dayton Co.
Bailey, G. R., N. W. Fuel Co.
Baldwin, Ernest J., 248 Security Bank Bldg.
Balkins, Almin J., Andrews Grain Co.
Banks, Lester T., Northwestern National Bank
Barnard, Frank S., St. Anthony & Dak. Elev. Co.
Barnes, Henry, R. R. Clerk, C., St. P., M. & O. Ry. Co.
Bartholmew, Fred H., Salesman, J. A. Peterson Co.
Bascomb, Marshall R., Shevlin-Carpenter Lumber Co.
Bazal, Edward P., Gamble Robinson Comn. Co.

Bazelon, Jacob L., Commercial National Bank
Beck, Lewis A., Asst. Buyer, The Dayton Co.
Bell, Chas. H., Stremel Bros. Roofing & Cornice Co.
Bell, Wm. B., First National Bank
Bergin, Frank E., Salesman, Armour & Co.
Bernhagen, Lewis O., Chemist, City Filtration Plant
Berry, Harry E., Winston, Harper, Fisher Co.
Bertelson, Arthur, Stationer, 208½ S. 4th
Bierman, Howard J., F. H. Bierman
Birath, Stanley D., Wm. W. Eastman Co.
Bjerke, William M., Russell-Miller Milling Co.
Blackman, Harold E., Deere & Webber Co.
Blackstone, Walter E., 904 University Ave. S. E.
Bloom, George E., Wyman Partridge & Co.
Blosky, Frank J., Clerk, Ill. Central R. R. Co.
Bodien, Victor, Hennepin County Savings Bank
Bogart, John H., Mpls. Sash & Door Co.
Boody, Fitz James, Northwestern National Bank
Borer, Albert H., Washburn Lignite Coal Co.
Borer, Otto J., Secretary, N. W. Washburn, Jr.
Botuosky, Dimo, Maurice L. Rothschild & Co.
Boutelle, R. H. L., 603 9th St. S.
Boxeth, Arthur O., Wyman Partridge & Co.
Brackett, Anson W., McClellan Paper Co.
Brancheau, Philip, Wm. Hendricks
Brands, John L., Asst. to National Bank Examiners
Brandt, Raymond A., First National Bank
Britt, Wm. J., F. E. Murphy Automobile Co.
Brix, Otto J., Receiving Teller, Scand. Am. National Bank
Brombach, Charles B., Transit Dept., Security National Bank
Broude, Joe, Western Electric Co.
Brown, Harry C., City Treasurer's Office
Brown, Ernest H., Northwestern National Bank
Brownlee, James, Cashier, McCaull-Dinsmore Co.
Brundin, Harold T., Railroad Office, Minn. Transfer
Budworth, Mrs. Cora W., Bkpr., Hillside Cemetery
Burke, Andrew J., Boutell Bros.
Burke, Gustaf I., Soo Line
Burns, Lee J., Freight Claim Investigator, Soo Line
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Carlson, Carl A., 2238 Buchanan St. N. E.
Carlson, Clarence W., Window Cashier, C., M. & St. P. Ry. Co.
Carlson, Oscar M., Scand. Am. National Bank
Carr, George A. J., C., M. & St. P. Ry Co., Stores Dept.
Carr, George H., Hardware Merchant, 4166 Washington Ave. N.
Carter, Milton J., T. V. Moreau & Co.
Casey, Frank D., Peteler Car Co.
Chesher, A. M., President, A. M. Chesher Print. Co.
Child, Sherman, Lawyer, 816 Lumber Exchange
Christie, Carroll, Security National Bank
Clark, Burt J., Wholesale Lumber, 927 Lumber Exchange
Clark, Dean C., Webb Publishing Co., St. Paul
Clifford, J. Wm., Jr., Rogers Lumber Co.
Cochrane, Beecher M., Clerk, Washburn-Crosby Co.
Cogwin, James F., Mpls. Gas Light Co.
Colberg, Mark W., Freeman Patterson Shoe Co.
Condit, Lannes A., Assistant City Comptroller
Conley, George H., National Candy Co.
Contermarsh, Ray A., Mpls. Steel & Machinery Co.
Corcoran, J. F., N. W. Fuel Co.
Core, Harold C., First National Bank
Corser, Frederick, Hewitt & Brown
Crowl, Verne C., McCaull-Dinsmore Co.
Cunningham, Sylvester, Northwestern National Bank
Curry, Ray D., Student, Univ. of Minn.
Dahlberg, Otto, 2533 29th Ave. S.
Dahlberg, R. H., Soo Line
Dahlquist, Arthur O., Northland Pine Co.
Dailey, William E., Minneapolis Daily News
Davis, Orin L., Warner Hardware Co.
Dentz, George J., Bkpr., 917 Plymouth Bldg.
DesMarais, Hubert H., Clerk, C. M. & St. P. Ry. Co.
Devereaux, Margaret, George H. Lugsdin & Co.
Djerf, A. R., Armour & Co.
Dorfman, Myer, N. P. Ry. Co.
Doyle, Will S., Sherwin Williams Co.
Draeger, Arthur G., H. W. Johns-Manville Co.
Draper, G. H., Auditor, The Dayton Co.
Duffy, Edward C., Salisbury & Satterlee Co.
Duffy, Wm. P., Stock & Traffic Mgr., International Harvester Co.
Dychto, Joseph H., Clerk, Edgar B. Cooper
Dyregrov, Ludwig, Security National Bank
Eaton, J. O., N. W. Fuel Co.
Edwards, Berthel W., Salesman, C. M. Bard
Egdahl, Anfin J., Minn. Moline Plow Co.
Ellis, Howard H., Phoenix Mutual Life Ins. Co.
Engler, Maurice, Northwestern National Bank
Engvall, Ernest M., Frame Dougherty & Co.
Ennis, C. Raymond, Williams-March Co.
Enos, J. Guy, International Harvester Co.

Erickson, Charles L., Rec. Teller, N. W. National Bank
Erickson, Karl, Scand. Am. National Bank
Evans, Edward E., Fullerton Lumber Co.
Fabian, John H., Phoenix Mutual Life Ins. Co.
Falconer, Fred M., Manager, Falconer's Laundry
Fatchett, Walter G., Accountant, Mellis Pirie & Co.
Fields, E. T., 2185 Knapp St.
Finch, Clarence L., 629 8th St. S.
Finstrom, Carrie, 2113 Washington Ave. S. E.
Fitzroy, Celestine, Waiter, National Hotel
Fitzsimmons, S. J., Clerk, N. W. National Bank
Flaherty, Louis C., Chief Clerk, McDonald & Wyman
Flatley, William H., Auditing Dept., Dan Patch Elec. Line
Fligelman, Julius, 1114 W. 25th St.
Floyd, George A., R. M. Chapman Basting Co.
Foley, Francis J., J. S. Hill & Co.
Foley, Mary, Bkpr., Northwestern Hospital
Forsythe, Elmer L., Clerk, Met. National Bank
Forsythe, William H., Boutell Bros.
Fredericks, Walter F., Peteler Car Co.
Freeman, Rudolph G., Bkpr., Skewis Grain Co.
Fuge, Edward, Salesman, C. B. Lyon & Bro.
Fulton, Carl D., Asst. Auditor, Mpls. Tribune
Futscher, Roy T., T. C. Rapid Transit Co.
Galewski, Benjamin C., Clerk, C. M. & St. P. Ry. Co.
Gallagher, A. J., 1104 E. 36th St.
Ganzer, John H., Lindsay Brothers
Gates, Jerome, Credit Man, Crescent Creamery Co.
Gillies, Fred H., Mpls. Gen. Elec. Co.
Gossler, Frank O., Philip Kekos
Grabow, Karl F., Deere & Webber Co.
Greenberg, Philip N., L. S. Donaldson Co.
Grime, Edward J., Cargill Elevator Co.
Grimm, Hans P., Northwestern National Bank
Gulbro, O. L., Asst. Cashier, Minnehaha State Bank
Gurney, E. A., M. A. Gedney Pickling Co.
Haas, Theodore J., Paying Teller, Met. National Bank
Hadley, Fred A., Chief Clerk, Western Transit Co.
Hagen, Ralph, Bkpr., The Buzza Co.
Hagensen, Elmer A., Bkpr., Journal Printing Co.
Hague, Alfred R., Clerk, Scand. Am. National Bank
Haines, A. C., 2108 Kenwood Blvd.
Hammar, Carl S., Stenographer, Armour & Co.
Haslund, Arthur E., Gt. Western Grain Co.
Hasselberg, Ragnar E., Northwestern National Bank
Hastay, Weld P., Northwestern National Bank
Hauge, Arthur W., Security National Bank
Heidbrink, J. A., 616 Donaldson Bldg.
Heilig, Charles A., Bkpr., A. M. Smith
Heinze, Gustav A., DeSota Creamery & Produce Co.
Henry, Louis F., Langworthy Lumber Co.
Higgins, F. G., Bkpr., 922 Flour Exchange
Hoiby, Anna Laura, Bkpr., S. R. Sikes Co.
Holbrook, Harold S., Bkpr., Mpls. Gas Light Co.
Holmer, Oscar G., Marwick, Mitchell, Peat & Co.
Holmes, Clinton A., Salesman, F. L. Jackson Coal Co.
Hoss, John A., Commercial National Bank
Houlihan, Arthur P., City Buyer, Nicols, Dean & Gregg, St. Paul
Houston, George S., Mpls. Steel & Machinery Co.
Howard, Harold, McCaull-Dinsmore Co.
Huebner, Walter L., Security National Bank
Hughes, Charles F., First National Bank
Hunt, Claude A., Collector, Henderson, Wunderlich, Brandebury & Stiles
Hurd, Lyman A., Northwestern National Bank
Hynes, Sara G., Davidson-Ross Co.
Jacobson, Martin, N. W. Consolidated Milling Co.
Jensen, Guy F., East Side State Bank
Jensen, Odin B., Wyman Partridge & Co.
Johnson, Carl W., 3310 N. E. Pierce St.
Johnson, David L., Hennepin County Savings Bank
Johnson, Evan M., Security National Bank
Johnson, Frederick B., C. M. & St. P. Ry. Co.
Johnson, Lyle K.. Student, Univ. of Minn.
Johnson, Morris G., Wyman Partridge & Co.
Johnson, Orval E., Scand. Amer. National Bank
Johnson, Philip O., G. N. Express Co.
Johnson, Robert, Mpls. State Bank
Johnson, William P., 1019 W. 28th St.
Jones, David T., Act. Financial Secretary, Humane Society
Jorgenson, Gilmer, Mpls. State Bank
Jorgenson, Harry, M. & St. L. R. R. Co.
Jorgenson, Justin, Claims Dept., Soo Line
Josselyn, George S., Russell-Miller Milling Co.
Juster, Adolph, Bkpr., Gross Bros.
Kaplan, Abraham, City Hospital
Karl, Clarence, International Harvester Co.
Kennedy, Harry F., Swain-Farmer Co.
Kennedy, Neil J., Hennepin County Savings Bank
Kerr, Harry A., Reeves Coal Co.
Kestermann, Julius F., McDonald Brothers Co.
Kinnard, Oscar B., Kinnard-Haines Co.
Kirk, Burt N., The Dayton Co.
Knapp, K. J., T. V. Moreau & Co.
Knudson, Clarence, Security National Bank
Koch, Arthur J., Central Supply Co.
Kohl, Leo H., 434 Met. Bldg.

Krebs, H. E., Maire Paint Co.
Kueken, Ralph B., Mpls. Window Shade Co.
Laing, DeWitt B., Deere & Webber Co.
Lally, Joseph L., L. R. Welles Lumber Co.
LaLone, Guy W., Cashier, Minnehaha State Bank
Landquist, Herman J., Security National Bank
Lang, Frederick W., 1960 E. Minnehaha St.
Larson, Amandus C., Emerson Brantingham Co.
Larson, Edward G., Rock Island Commercial Office
Lauritzen, Edw. W., Acme White Lead & Color Works
Layden, Arthur, Student, Univ. of Minn.
Leachman, Henry, 2637 Irving Ave. S.
Lein, Charles R., N. W. Fuel Co.
Leonard, Clarence E., Mpls. News Co.
Lillegren, Austin T., Baker Valve Co.
Lillegren, Melville, Warner Hardware Co.
Lindquist, Harry C., Security National Bank
Loberg, Walter, Clerk, Security National Bank
Lockwood, Clifford N., B. W. Baker
Lohmon, G. F., Butler Bros.
Long, James M., Jr., John F. Wilcox Co.
Loth, Albert B., Pillsbury Flour Mills Co.
Lovering, Frank D., First National Bank
Lowen, Clarence P., N. W. Fuel Co.
Lundberg, Henry C., W. S. Nott Co.
Lundberg, Victor E., Street Lighting Dept.
Lundblad, Milton T., Student, Univ. of Minn.
Lundell, Fred W., Wyman Partridge & Co.
Lundquist, Axel B., Commercial Security Co.
McBride, H. P., McBride Grocery
McCall, Arthur R., The Dayton Co.
McClintock, Wm. H., O'Brien & Harris
MacDonald, H. L., Warner Hardware Co.
McDonald, Millard H., McDonald Brothers Co.
McErlane, Rose, 3000 Oakland Ave.
McGaughey, Leonard I., Emerson Brantingham Co.
McGilvra, Walter, Glenwood-Inglewood Co.
MacGregor, Fergus H., N. W. Knitting Co.
Magnuson, Ernest, Henry Weiskopf
Mains, Thomas N., Mpls. Steel & Machinery Co.
Marshall, Herbert L., Security National Bank
Martin, Thos. N., Mpls. Tribune Co.
Martinsen, Arnold B., Washburn-Crosby Co.
Martner, John G., S. H. Bowman Lumber Co.
Masica, Peter V., C. M. & St. P. Ry. Co.
Mason, Albert O., 111 Grant St.
Maus, Wm. D., N. W. Fire & Marine Ins. Co.
Megson, George, M. M. McCarthy
Mellstrom, Helen, State Mutual Life Assurance Co.
Meskan, John J., Commander Mill Co.
Meyers, Henry L., Security National Bank
Millar, Daniel J., Woodworth Elev. Co.
Miller, Hyman S., 1401-1403 Plymouth Ave. N.
Miller, Richard J., L. R. Welles Lumber Co.
Miller, Samuel M., Governor Johnson Cigar Co.
Miller, Wilbur, Student, Univ. of Minn.
Morean, R. F., International Grain Co.
Moreau, T. V., Optician, 316 Nicollet Ave.
Morgan, Harry, 1407 1st Ave. S.
Morris, Wm. H., Midland Linseed Products Co.
Morrison, Kenneth M., First National Bank
Morton, Edw. W., Jr., Monarch Elev. Co.
Mosse, Frederick, Minnesota Loan & Trust Co.
Nellermoe, Otto D., 1819 5th St. S.
Nelson, Albert J., 711 N. Y. Life Bldg.
Nelson, Alfred C., Hardwood Mfg. Co.
Nelson, Arthur P., Santo Vacuum Cleaning Co.
Nelson, Carl U., Mpls. Gas Light Co.
Nelson, Robert P., Mpls. Tribune Co.
Nichols, Alma T., 226 N. Y. Life Bldg.
Nickerson, Clarence E., Interior Lumber Co.
Nicoll, George P., Cargill Elevator Co.
Norbeck, George O., Soo Line
Nordstrom, Alice A., Welles Brothers Pub. Co.
Nordstrom, Charles, 946 19th Ave. N. E.
Nordstrom, Maurice H., Northwestern National Bank
Nordstrom, Leonard, Hardwood Mfg. Co.
Noren, William T., Wyman Partridge & Co.
Nyberg, Walter P., Scand. Am. National Bank
Oberg, Ezra N., Hegna Dry Goods Co.
O'Brien, Harold T., Northrup King & Co.
O'Hearn, Harry, Northwestern National Bank
Ohrbeck, J., C. E. Faulkner
O'Leary, Jerome R., The Pullman Co.
Olsen, Oscar H., St. Paul & Western Coal Co.
Olson, Edward A., Commercial National Bank
Olson, Elmore J., Union State Bank
Olson, Oscar A., Mpls. Paper Co.
Ornes, Chester A., Ornes Esswein & Co.
Ornes, George N., Ornes Esswein & Co.
Oswald, Emil U., Cedar Lake Ice Co.
Palmer, John F., 3318 Bryant Ave. N.
Parkhurst, Harry C., N. W. Fuel Co.
Parsons, Henry A., N. W. Automobile Co.
Pearson, Erick, 2820 28th Ave. S.
Pelletier, Bruno J., George C. Bagley Elev. Co.
Pepper, Dr. Frederick W., 804 Pillsbury Bldg.
Peterson, Clarence A., Union State Bank
Peterson, C. Otto, N. W. Fuel Co.
Peterson, Rodney T., Northland Pine Co.
Pettit, R. K., 1309 6th Ave. N.
Pickering, Burt C., 1416 Clinton Ave. S.
Piemeisel, Rudolph, Armour & Co.
Plant, John F., Security National Bank
Pomeroy, Richard T., Freight Dept., Washburn-Crosby Co.
Pond, Harold H., Box 97, R. R. 1
Poux, Gabriel, L. S. Donaldson Co.
Powell, Warren T., Instructor, Univ. of Minn.
Power, Robert E., 1129 Plymouth Bldg.
Pray, John W., First National Bank
Price, Fred W., Lindsay Brothers
Quint, J. A., Washburn-Crosby Co.

Ralph, M. W., T. C. Rapid Transit Co.
Ranous, Fred C., Agent, Soo Line
Raths, Alfred W., Janney Semple Hill & Co.
Reedy, Edward M., Fowler & Pay
Reedy, Henry A., N. W. Knitting Co.
Reid, John K., N. W. Knitting Co.
Ringbloom, Carl A., Jensen Printing Co.
Robertson, Burton J., 411 17th Ave. S. E.
Rolph, D. R., 12 Library Place S. E.
Rose, Carrol H., Northwestern National Bank
Ryner, Hal J., Amer. Tel. & Tel. Co.
Sabom, Fred W., National Window Shade Co.
Sabom, Oscar A., National Window Shade Co.
Sanaker, O. H. Henry, Mpls. Gen. Elec. Co.
Sanborn, Guy, Ford Motor Co.
Sanford, L. L., Cleland Mfg. Co.
Sanders, Arthur, N. W. Fuel Co.
Scherven, Alfred W., Local Freight Dept., Soo Line
Schmal, Geo. P., Swift & Co.
Schmitt, Robert A., Paul A. Schmitt
Schneckenberg, Albert R., 1601 Pioneer Bldg., St. Paul
Schaefer, Arthur C., Minn. Rubber Co.
Schuster, George J., Soo Line
Schwartz, Solomon, Lampert Lumber Co.
Schwarz, Alfred B., Northwestern National Bank
Sellars, Ernest F., Mpls. Knitting Works
Seybold, Joseph L., Wells & Dickey Co.
Shannon, Albert M., Clerk, Northwestern National Bank
Shannon, Thos. J., N. P. Ry. Co.
Sheldon, Chas. S., 1121 University Ave. S. E.
Sheppard, Earl V., Northern Machinery Co.
Sherlock, Alfred, 516 S. 8th St.
Sinclair, Lucien D., Student, Univ. of Minn.
Sloan, William H., N. W. Tel. Exchange Co.
Slocum, Roy C., Russell-Miller Milling Co.
Smith, Arthur V., Credit Dept., Security National Bank
Smith, James C., 1520 Park Ave.
Smith, John W., Northwestern National Bank
Smith, W. D., 3912 41st Ave. S.
Speigel, Anna, U. S. Fidelity & Guar. Co.
Staples, Chas. W., Midland Linseed Products Co.
Staples, Mark F., McCaull Webster Elev. Co.
Stasel, Alfred G., 3034 23rd Ave. S.
Steinmetz, Wm. J., D. M. Gilmore Co.
Stenvig, J. S., N. W. Knitting Co.
Stern, Meyer D., B. Tuchman Co.
Stillwell, Harry G., Folsom Investment Co.
Stock, Ernest G., Kinnard-Haines Co.
Stone, O. M., Buyer, The Dayton Co.
Sutherland, Louis, N. W. Fire & Marine Ins. Co.
Swain, Hubert A., Swain-Farmer Co.
Swanish, Peter T., Cunard Steamship Co.
Swanson, Reuben T., Northwestern National Bank
Tanner, Earl A., Janney Semple Hill & Co.
Taylor, L. E., 914 Flour Exchange
Tergin, Iver, Northwestern National Bank
Telford, Benjamin L., Y. M. C. A.
Thies, Roy A., Northwestern National Bank
Thompson, Arthur R., North Star Feed & Cereal Co.
Thompson, Roy C., Mpls. Steel & Machinery Co.
Thrall, Ralph A., Security National Bank
Thuras, Harold C., Deere & Webber Co.
Tippel, Louis A., Noyes Bros. & Cutler, St. Paul
Titus, James L., Univ. of Minn.
Tuck, Lewis E., 2819 Stevens Ave. S.
Underwood, Miles H., Minneapolis Journal
Upton, Edson K., N. W. Fuel Co.
VanderBie, B. F., First National Bank
Villesvik, John K., Free Church Book Concern
Vind, Henry W., Wyman Partridge & Co.
Wagner, Archibald F., Quail Parker & Co., St. Paul
Walters, Roy P., Wyman Partridge & Co.
Warren, Victor L., Western Elec. Co.
Westerdahl, Wm. P., East Side State Bank
Westlund, Oscar, 8 W. 4th St.
Wheaton, Elmer M., Goodyear Tire & Rubber Co.
Wheaton, Greer F., 515 Kasota Bldg.
White, Hugh E., Mpls. Steel & Machinery Co.
White, John R., Jr., Steward, Campus Club
Wichman, Arthur H., Nelson Drug Co.
Wickander, Edwin J., Deere & Webber Co.
Wilkinson, Chas. P., 915 N. Y. Life Bldg.
Will, Fred L., Northwestern National Bank
Williams, Ivor H., 722 Lumber Exchange
Williams, James E., Northwestern National Bank
Williams, L. Leslie, 506 Donaldson Bldg.
Wilson, Alfred E., Security National Bank
Wilson, Gladys L., 610 Plymouth Bldg.
Witt, George P., Scand. Am. National Bank
Wood, George B., City Comptroller's Office
Wright, William W., Bovey Shute Lumber Co.
Wurmli, Ernest R., L. R. Steinmetz
Younggren, L. E., Metropolitan National Bank
Zwicker, Arthur E., Mpls. Knitting Works

ENGINEERING COURSES—105

Anderson, Nels E., Sta. Eng., Puffer-Hubbard Mfg. Co.
Anderson, Oscar G., W. S. Nott Co.
Baken, Arthur, Decorator, Furnisher, J. S. Bradstreet & Co.
Bathurst, John F., Draftsman, C. A. P. Turner

Bergendahl, H. J., Draftsman, M. & St. P. R. & D. E. T. Co.
Blade, J. Robert, Puffer-Hubbard Mfg. Co.
Buell, Edwin A., Draftsman, Am. Bridge Co.
Busback, Louis B., Draftsman, Kenyon & Maine
Carson, John M.
Chadwick, John A., 1416 Aldrich Ave. N.
Cleworth, Frank, E. E. Dept., Univ. of Minn.
Comb, John E., David Comb & Son
Cormey, William J., T. C. Rapid Transit Co.
Cunningham, Thos. E., Belden, Porter, Gray & Co.
Dullum, Olaf, Draftsman, A. C. Clausen
Dunnell, Richard H., 2400 Aldrich Ave. S.
Engel, William P., 2415 Upton Ave. N.
Enzler, Carl A., Enterprise Machine Co.
Erickson, Thomas W., Electric Machinery Co.
Farnham, S. W., T. C. Rapid Transit Co.
Felsig, Arthur R., 710 Sykes Bldg.
Fixen, Victor L., Draftsman, C. A. P. Turner
Fomell, Harry W., Draftsman, Am. Bridge Co.
Fridlund, Oscar A., 920 6th Ave. S.
Ganzer, John H., Lindsay Brothers
Gilinson, Ephraim C., Architect, 305 E. 3rd St.
Goodwin, W. R., Creosote Inspector, City Engineer's Office
Grabner, Walter J., 420 8th Ave. N. E.
Groff, Vincent, Herzog Iron Works, St. Paul
Gunn, John M., Cargill Elev. Co.
Gustafson, Edward, 1816 5th St. S.
Hammer, Jacques, 116 S. 12th St.
Hansen, Nathaniel, N. W. Tel. Exchange Co.
Hanson, Farley L., Roberts-Hamilton Co.
Harrison, Carl, N. W. Tel. Exchange Co.
Heath, B. R., Pillsbury Flour Mills Co.
Heer, Clarence D., W. K. Morrison & Co.
Heglund, Burt, 713 Huron St. S. E.
Hills, Yale D., 2917 Grand Ave. S.
Holton, Milton G., W. A. Eggleston
Hoover, Claude B., Hewitt & Brown
Huch, Aloysius, Central Supply Co.
Huston, Robert, City Engineer's Office
Isaacson, Arthur L., Roberts-Hamilton Co.
Jensen, Ernest W., McClintock-Loomis Co.
Jensen, R. G., T. C. Rapid Transit Co.
Johnson, Ingvald L., Soo Line
Jones, Thos. E., N. W. Tel. Exchange Co.
Kinne, Myron B., Kinne Mfg. Co.
Koenig, Benjamin, Mpls. Gen. Elec. Co.
Lama, C. F., 21 S. 13th St.
Larson, Maurice C., 202 Lumber Exchange
Larson, Nathan, Tyrie & Chapman
Lavine, Edgar, Nott Fire Engine Co.
Lawson, Harold T., N. W. Tel. Exchange Co.
Leighton, Bert E., N. W. Tel. Exchange Co.
Lesage, Wilfred, 318 2nd St. W.
Lies, Arthur J., Draftsman, Central Supply Co.
Lind, Oswald, Material Clerk, C. M. & St. P. Ry. Co.
Loche, A. M., 633 Met. Life Bldg.
Lockwood, Newton L., Draftsman, Harry W. Jones
Long, James M., Jr., Clerk, J. F. Wilcox Co.
Lundquist, Clarence, 431-432 Andrus Bldg.
McDowell, George F., 606 Met. Life Bldg.
McGanly, F. L., 819 Lowry Ave. N.
McMillan, Howard O., 2 5th St. S. E.
Miller, Howard L., Mpls. Elec. Equipment Co.
Mueller, Herman F., Engineer, Washburn-Crosby Co.
Andrew, Nelson, Salesman, Mpls. Gen. Elec. Co.
Nelson, Axel B., Clerk, Aug. Cederstrand & Co.
Nord, Eric, 2627 Taylor St. N. E.
Normand, Louis R., 714 18th Ave. N.
Nothaker, Willis K., 4820 28th Ave. S.
Odlin, Cecil, Draftsman, Tyrie & Chapman
Olson, Clarence T., A. R. Van Dyck
Olson, Herman E., Chapman & Magney
Pederson, Einar, City Engineer's Office
Peters, Frank, Bldg. Supt., C. W. Gindele Co.
Peterson, George E., Clerk, St. Anthony Falls P. O. Station
Peterson, John, N. W. Tel. Exchange Co.
Purdham, Plummer P., Shipping Clerk, Loose-Wiles Biscuit Co.
Rixon, Howard S., N. W. Tel. Exchange Co.
Roberts, Eugene E., Draftsman, Roberts-Hamilton Co.
Roos, Chas. J., N. W. Tel. Exchange Co.
Rosenblum, William, Pillsbury Flour Mills Co.
Rustad, Joseph H., Draftsman, Tyrie & Chapman
Rutherford, Silas J., 1016 27th Ave. N. E.
Samz, Chas. J., Draftsman, Am. Bridge Co.
Sanders, Chas. M., Butler Bros.
Sather, Clarence J., 2323 Dupont Ave. N.
Sather, Towald B., City Engineer's Office
Sheridan, George C., 2452 13th Ave. S.
Silverman, Michael, Draftsman, C. L. Pillsbury, St. Paul
Sjogren, Carl J., Draftsman, Victor F. V. de Brauwere
Sorensen, Niels C., Draftsman, E. H. Lund
Sparby, William, Expert, Bowman & Libby
Sterling S. H., 3836 10th Ave. S.
Spyberg, Tom D., Western Elec. Co.
Swanson, Gustaf A., Frykman Electric Co.
Swanson, Victor, J. L. Robinson Co.
Thorshaug, Olaf, Long, Lamoreaux & Long
Waite, Carlton K., Electrician, Security Bank Bldg.
Wells, P. B., 139 Queen Ave. N.
Wilson, Reuben, Tri-State Telephone Co.
Workman, David, Artist, Beard Art Galleries

LAW COURSES—25

Bailey, Frank, Auditor, Elec. Engineering Co.
Bissonnette, Arthur R., Freight Office, G. N. Ry. Co.
Bloomquist, Wallace, Asst. to Supt. of Bldgs., Univ. of Minn.
Brethauer, John D., Mpls. Tribune Co.
Brix, Paul T., Clerk, W. C. Brix
Brodrick, Martin J., Reporter, Mpls. Journal
Brown, Gordon R., Tel. Oper., Andrews Hotel
Brugger, Hiram D., Fred L. Gray Co., Sec. Bank Bldg.
Bunnell, Charles A., Office of Pillsbury Flour Mills Co.
Burns, Raymond L., 2605 18th Ave. S.
Cherry, Horace K., Consumers Power Co.
Cohen, Samuel C., Asst. credit man, Plant Rubber Co.
Doll, Nicholas, 212 8th Ave. N. E.
Guernsey, Herbert J., Sales Dept., Pillsbury Flour Mills Co.
Herbst, Edith G., Statistician, State Tax Commission
Horrigan, William J., 900 Dayton Ave., St. Paul
Kronzer, Walter J., Weighmaster, Cedar Lake Ice Co.
Loomis, Albert G., Secretary, T. C. Rapid Transit Co.
Millar, Leslie C., Clerk, Spooner, Laybourn & Lucas
Morelius, William, Real Estate
Plympton, Chester, Minneapolis Tribune
Soderberg, Leon H., Clyde Iron Works
Spedden, Henry R., Dean's Office, Law School, Univ. of Minn.
Viesselman, Percival W., Student, Univ. of Minn.
Wash, Percy R., House salesman, Hudson & Thurber Co.

ST. PAUL

ACADEMIC COURSES—168

Adams, Mrs. Prusella F., 30 Kent St.
Amery, Frances S., Teacher, Public Schools
Arnold, Mrs. S. O., The Marlborough
Bailey, Mrs. E. H., 459 Holly Ave.
Banning, Margaret, Teacher, Public Schools
Barrett, Mary E., St. Catherine's College
Beckwith, Charles O., Sischo & Beard
Berg, Ester, Teacher, Public Schools
Berner, Mr. L., Gordon Ferguson Co.
Boeringer, Geo. W., Boeringer & Son
Boeringer, Paul R., Boeringer & Son
Brainerd, Carl C., St. Paul Adv. Co.
Brennan, Mary F., Teacher, Public Schools
Brennan, Ruth, 1026 Portland Ave.
Bromley, Frederick, W. H. Kindy
Brown, Eva, Teacher, Sibley School
Brown, Minnie J., Teacher, Public Schools
Buckley, Margaret, Teacher, Baker School
Bunn, Fanny L., 794 Linwood Place
Bunn, Mary A., 549 Portland Ave.
Burns, Elizabeth, Teacher, Public Schools
Burns, Janet M., 99 Western Ave.
Burns, Maria, Teacher, Public Schools
Buttedal, Anton, Theological Student
Campbell, Geo. C. S., Optometrist
Carnel, Margaret M., St. Catherine's College
Carpenter, Jessie, 3638 Harriet Ave. W.
Cates, Mary P., Teacher, Sibley School
Caulfield, May G., Teacher, Public Schools
Cecil, Ruth M., Teacher, Prescott School
Christensen, Emma L., Creamery Package Mfg. Co.
Christensen, Emun P., Student, Univ. of Minn.
Clark, Miss Keith, 1470 Wesley Ave.
Clinton, Pearl M., F. W. Zollman
Collins, Jessie O., 6th Ave. S. and 5th St.
Countryman, Ernest A., 722 Globe Bldg.
Crawford, Eleanor W., The Angus
Cutler, Amelia D., 360 Summit Ave.
Cutler, Lucy C., Harrison School Principal
Daly, Elizabeth, 718 E. 6th St.
Daly, Jewell G., 51 Minnehaha
Daly, Mary E., Teacher, Public Schools
Davis, Mary J., Dairy & Food Dept., State Capitol
Dugas, Nettie L., Teacher, High School
Dupuis, Jane E., Teacher, Public Schools
Durkee, Gertrude M., State Capitol
Elliott, Catherine, St. Catherine's College
Emery, Marion G., Teacher, Public Schools
Feinstein, Marcus, St. Paul Hotel
Finstrom, Carrie, 2113 Washington Ave. S. E., Minneapolis
Fitzgerald, Agnes M., St. Catherine's College
Flynn, Julia M., The Angus
Flynn, Martha B., The Angus
Foley, John P., Professor, St. Thomas College
Frederickson, Arthur C., N. W. Tel. Exchange Co.
Frederickson, Margaret F., 2126 Carter Ave.
Furness, Mrs. C. E., 265 S. Exchange St.
Gaughan, Sarah, Teacher, Public Schools
Gaskell, Chester W., 135 Cambridge Ave.
Girvin, James H., Optometrist, Golden Rule
Goldsmith, Cornelia, Kindergarten, Whittier School
Gorman, Alice, Teacher, Public Schools

Gorman, Mary, Teacher, Public Schools
Grant, Mary J., Teacher, Crowley School
Grube, Helen, Teacher, Cleveland School
Hartman, Frank, 282 W. Central Ave.
Hasse, Augusta H., Teacher, Public Schools
Hayes, Laura A., Teacher, Public Schools
Herbst, Edith G., Statistician, State Capitol
Hern, Angie K., Teacher, Public Schools
Hernan, Lucy, City & County Hospital
Hester, John, Teacher, Public Schools
Hinners, Clara L., Davis, Kellogg & Severance
Hinners, Gertrude, Teacher, Public Schools
Hoeborn, Elizabeth, Teacher, Public Schools
Hopkins, Mark L., T. C. Rapid Transit Co. Eng. Dept.
Hosmer, Alice M., Teacher, Public Schools
Hughes, Theresa, F. E. Magraw
Hulse, Harvey G., N. P. Ry. Co., Office, Gen. Supt.
Humphrey, Alice M., 656 Lincoln Ave.
Hurley, Josephine E., St. Catherine's College
Jackson, Earl F., 612 Endicott Bldg.
Johnson, Edith M., Student, St. Catherine's College
Johnson, Elise L., Robt. L. Ware
Johnson, Jay W., 301 Pioneer Bldg.
Johnston, Edward H., Student, Univ. of Minn.
Kelly, Laurence F., Instructor, St. Thomas College
Kenny, Daniel F., Swift & Co.
King, Mrs. Eugene, 1483 Laurel Ave.
Kippels, August A., St. Paul Gas Light Co.
Knapp, Edward A., 814 Germania Life Bldg.
Kramer, Edward A., Otto Bremer
Kranz, Elise A., Teacher, Sibley School
Kreutz, Amelia, Teacher, Public Schools
Kuehne, Minnie L., DeCamp Decorative Co.
Kult, Mary, Teacher, Hendricks School
Kyle, John P., Room 40, Court House
Larkin, Jane V., Teacher, St. Paul Normal School
Lenz, Cecilia A., St. Catherine's College
Lenz, Paul O. H., Hydraulic Press Brick Co.
Leonard, Mary, Teacher, St. Paul Training School
Liggett, Gladys L., 496 Holly Ave.
Lokensgard, Edwin O., 1687 W. Minnehaha St.
Long, Roy H., N. P. Ry. Co., A. F. R. Dept.
Lyon, Harold A., W. H. Kindy
McCauly, Clara J., Teacher, Sibley school
McClellan, Mary, 88 Kent St.
McLaughlin, Mary E., St. Catherine's College
Madsen, Leon V., Twin City Brick Co.
Medley, Mabel, Teacher, Public Schools
Metcalf, Mrs. Geo. R., Hotel Aberdeen
Moriarty, John, 310 Globe Bldg.
Muller, Catherine, The Antlers
Neff, Edmund B., Optician, Sischo & Beard
Newquist, C. C., Optician, Sischo & Beard
O'Brien, Vincent P., Optician, Sischo & Beard
Oehler, Hazel S., The Aberdeen
Ohr, Frances D., Principal, Gorman School
O'Neill, Francis L., West Publishing Co.
Ostergren, Esther C., Teacher, Public Schools
Paterson, James F., Schuneman & Evans
Patterson, Mrs. Georgie L., Teacher, Public Schools
Peerboom, Mary H., St. Catherine's College
Peterson, Agnes L., Department of Labor, State Capitol
Peterson, Anna P., Teacher, Cleveland School
Phelan, Bridget, Principal, Longfellow School
Pickard, Anna C., Principal, Jackson School
Powers, Loretta F., St. Catherine's College
Reinke, Jos. E., Teacher, Public Schools
Rice, Henry, Optometrist, Schuneman & Evans
Rood, Belle, Teacher, Public Schools
Rueth, Agnes E., St. Paul Normal School
Ryan, Anna G., Teacher, Humboldt High School
Sandberg, Ivar, Cor. Hamline & Capitol Aves.
Sauer, Bertha, 214 Goodrich Ave.
Schroer, Carl W., Eng. Dept., Carl A. Stickney Co.
Seymour, Mrs. Robert M., St. Paul Institute
Shelley, Margaret A., St. Catherine's College
Simon, Clara J., Teacher, Public Schools
Simon, Ellen M., Teacher, Public Schools
Sister Anna Margaret, St. Catherine's College
Sister Clarice Quinn, St. Catherine's College
Sister Eva McDermott, St. Catherine's College
Sister Frances Rita Ryan, St. Catherine's College
Sister M. Ebba, St. Catherine's College
Sister M. Edwin, St. Catherine's College
Sister Mary John Ryan, St. Catherine's College
Sister St. Antonia, St. Catherine's College
Sister St. Helaine, St. Catherine's College
Sliney, Katherine, Teacher, Neill School
Smith, Harriet, Hotel Aberdeen
Spencer, Nellie S., Optician, Geo. P. Tuthill
Stickney, Mrs. May C., 288 Summit Ave.
Swain, Mary C., Teacher, Smith School
Swanson, Lawrence B., Supt. of Distribution, St. Paul.
Synek, Anna M., 443 Charles St.
Thorstad, Gladys M., St. Catherine's College
Turner, Mrs. Lillian A., 386 N. St. Albans
Vook, Jay P., Student, College of Agriculture
Walsh, John W., G. N. Ry. Co.
Ward, Dwight E., Sischo & Beard
West, Sadie, Teacher, Public Schools
Wick, Elmer G., Sischo & Beard
Widell, Gideon E., St. Paul Foundry Co.
Wilkie, David B., W. M. McMurray & Co.
Williams, Arthur F., Sischo & Beard
Williams, Isabel, Teacher, Public Schools
Zwicky, Charles A., 517 Wabasha St.

BUSINESS COURSES—265

Anderson, Alfred, Hackett-Gates-Hurty Co.
Anderson, Oscar M., N. P. Ry. Co.
Anderson, Philip A., Farwell Ozmun Kirk & Co.
Anfung, B. J., 665 Blair St.
Arth, Frank J., Noyes Bros. & Cutler
Aune, Lawrence S., Merchants National Bank
Austin, Orrin, Asst. Accountant, E. J. Bishop
Axelson, Arthur A., 1043 Hudson Ave.
Bachke, Leif E., Hackett-Gates-Hurty Co.
Backus, Clinton J., Jr., Capital Trust Co.
Bagley, Guy A., P. J. Bowlin & Son
Bagley, Wilber F., Golden Rule
Bailey, Edith A., Bkpr., F. E. Magraw
Baker, Otis, Bkpr., 209 Gilfillan Block
Barnes, Samuel, C. St. P. M. & O. Ry. Co.
Barrett, Thomas W., 761 Lightner Place
Bastyr, Thomas W., 608 Smith Ave.
Birch, Frank A., Stockyards National Bank
Bremer, Charles J., Brown Treacy & Sperry Co.
Brickner, Joe, Jr., Brown & Bigelow
Bruning, Herman, Am. Hoist & Derrick Co.
Burdick, Richard E., Bkpr., Wm. L. Keefe
Burns, Harry E., Salesman, R. N. Cardozo & Bros.
Cahill, William J., Clerk, Farwell Ozmun Kirk & Co.
Canby, William C., N. W. Fuel Co.
Carson, Louise, 422 Holly Ave.
Chapin, Harold S., Draftsman, Swift & Co.
Cheney, C. W., N. W. Fuel Co., Minneapolis
Cizek, John J., Am. Hoist & Derrick Co.
Clapp, W. D., 303 Pioneer Bldg.
Condit, Glenn E., Wells Fargo Express Co.
Conyers, Harry, Crane & Ordway
Cooke, Zina H., Chief Clerk, Indian Refining Co.
Copley, J. H., J. H. Allen & Co.
Christ, Gertrude E., 476 Ashland Ave.
Crotty, Edward J., St. Paul Rubber Co.
Crowl, Oliver A., First National Bank
Cummings, Frank B., G. N. Express Co.
Danforth, H. S., 388 Laurel Ave.
Danielson, A. W., Clerk, G. N. Ry. Co.
Danz, Edward A., N. W. Fuel Co.
Danz, Eugene P., Hart & Murphy
Davis, Glen H., Asst. Secretary, Soldiers Home Board
Dedson, Clarence, Teller, Scand. American Bank
Dempsey, Allan S., Adv. Solicitor, Minneapolis Journal
Dietz, Arthur O., Brown Treacy & Sperry Co.
Dooley, J. L., Chief Clerk, Am. Express Co.
Dosen, Clarence A., Chief Clerk, St. Paul Fire Underwriters Inspection Bureau
Dreves, Albert P., Salesman, H. A. Dreves Co.
Dudley, John J., N. W. Fuel Co.
Dupuis, Martin J., G. N. Ry. Co.
Durment, Edmund, Jr., Kingston Printing Co.
Edwards, George H., Jr., Merchants National Bank
Eggert, Frederick H., Lindeke Warner & Sons
Eldredge, A., 160 W. 5th St.
Eldredge, E. T., Towle Maple Products Co.
Elting, George C., N. W. Fuel Co.
Ely, Carl L., C. M. & St. P. Ry. Co.
Fabbrini, John C., Stenographer, Post-office Bldg.
Fahnstock, Halleck P., City Agent, N. W. Fuel Co.
Fillebrown, Arthur K., Student, Univ. of Minn.
Firestone, Allan, Corning Adv. Agency
Fitzgerald, E., Mail Teller, Capital National Bank
Flink, Gustaf O. H., Bkpr., Commercial State Bank
Forley, Edward A., Cabinet maker, C. St. P. M. & O. Ry. Co.
Forley, Robert C., C. St. P. M. & O. Ry. Co.
Frederickson, Arthur C., N. W. Tel. Exchange Co.
Freudenberg, Wm. F., Clerk, C. St. P. M. & O. Ry. Co.
Fuller, Harvey B., Sales Manager, H. B. Fuller
Geddes, Robert C., C. Gotzian & Co.
Geisenheyner, Albert, 1077 Laurel Ave.
Gerstenmaier, Walter, Twin City Iron & Wire Works
Gibbs, Herbert J., Zenith Telephone Co.
Gibson, Paul R., Surveyor, N. P. Ry. Co., Engr. Dept.
Gobeil, Jos. G., Finch Van Slyck & McConville
Goers, Harry, 707 Sherburne Ave.
Goess, Leo W., Frank Zdarsky
Goff, F. W., Merchants National Bank
Goldsmith, F. W., City Engineer's Office
Graham, Walter A., Cashier, N. W. Fuel Co.
Grahl, O. W., N. W. Shot & Lead Works
Greig, William, Student, Macalester College
Grogan, Joe, 812 Carroll Ave.
Grove, Harold A., Scand. American Bank
Gruber, Jeffrey, Bkpr., C. A. Thompson
Habermann, Warner B., Clerk, Swift Co., R. R. Dept.
Hagen, Arthur W., Clerk, Griggs Cooper & Co.
Hall, Gardner V., Crane & Ordway
Hedrick, William, Farwell Ozmun Kirk & Co.
Heinze, Paul G., Bkpr., Gordon Ferguson Co.
Hensel, LeRoy R., City Salesman, N. W. Fuel Co.
Herrick, Elmer E., Cashier and Bkpr., Gas Traction Foundry Co.
Hoffman, Nathan L., Chief Clerk, G. N. Express Co.

Hohler, Herman, Bkpr., McKibbon Driscoll & Dorsey
Hultman, F. W., 660 Case St.
Inderson, Albin K., Bkpr., Scand. American Bank
Ivey, Henry W., Bkpr., W. H. Ivey
Jackson, Leo B., Capital National Bank
Jacobsen, H. W., Western Supply Co.
Jacobsen, Joseph B., Brown Treacy & Sperry Co.
Jenkins, F. L., Winecke & Doerr
John, Richard P., Theo. Hamm Brewing Co.
Johnson, Albert A., Albert Johnson Coal Co.
Johnson, Carl A., Student, Hamline University
Johnson, David L., Hennepin County Savings Bank
Johnson, George A., Klinkerfues Brothers
Johnson, Herbert A., A. G. Bauer
Johnson, Otto, Am. Express Co.
Kelly, Raymond C., Am. Express Co.
Kemper, Edward H., Kuhles & Stock Co.
Kendall, Casletow A., 2221 Langford Ave.
Kennedy, Walter J., Student, Univ. of Minn.
Kerker, Thos., Theo. Hamm Brewing Co.
Kjelland, V. B., Hackett-Gates-Hurty Co.
Klaus, Harry B., V. R. Irwin & Co.
Klinkerfues, Ralph E., Klinkerfues Bros.
Klinkhamer, Frederick C., G. Sommers & Co.
Koehler, Alvin W., Stockyards National Bank
Kramer, Edward A., 487 Aurora Ave.
Kueffner, William R., 616 Globe Bldg.
Kuntz, Paul G., G. N. Ry. Co.
LaBarre, Arthur, Robinson Cary & Sands Co.
LaBelle, Raymond M., Interurban Construction Co.
Lampland, Charles, Capital City Lumber Co.
Lange, Albin E., 912 Margaret St.
Larsen, Carl L., Y. M. C. A.
Lee, Edward J., 705 Lumber Exchange, Minneapolis
Lemke, Frank J., Theo. Hamm Brewing Co.
Lenertz, Leo P., Finch, Van Slyck & McConville
Lewis, Edward C., Frt. Claim Dept., G. N. Ry. Co.
Levenson, Charles, Finch, VanSlyck & McConville
Leyh, Grover C., Kempien Burk & Co.
Lilley, John M., Am. Hoist & Derrick Co.
Lilley, Leonard M., Snelling State Bank
Lingren, Walter H., G. Sommers & Co., Credit Dept.
Linnell, Elias T., P. J. Bowlin & Son
Little, Harry A., Foley Bros.
Lohmann, Alphonso P., Theo. Hamm Brewing Co.
Long, Roy H., N. P. Ry. Co.
Loveland, M. W., Drake Marble & Tile Co.
McCaffrey, Arthur R., St. Paul Fire Underwriters Inspection Bureau
McCrary, Earl A., N. P. Ry. Co.
McGee, James J., N. P. General Offices
McMannon, John T., G. N. Ry. Co.
Mailand, Carl H., Am. Hoist & Derrick Co.
Maley, Clarence A., Am. National Bank
Malmstrom, Nels R., Milton Dairy Co.
Markert, Alois H., National Candy Co.
Markoe, Stuart F., St. P. Fire & Marine Ins. Co.
Marshall, Frank A., G. N. Ry. Co.
Maxwell, Charles P., Capital National Bank
Mayer, John A., Griggs Cooper & Co.
Mergens, Benj. J., Mergens & Son
Mergens, Jos. W., Mergens & Son
Metzger, Jos. P., Finch, VanSlyck & McConville
Michel, George A., Crane & Ordway
Middents, F. C., F. J. Romer Const. Co.
Miller, Mrs. Lydia P., Education Comm., State Capitol
Millward, Russell, G. Sommers & Co.
Mitchell, Harry R., G. N. Ry. Co.
Moran, Edward P., Schuneman & Evans
Morgan, Fay E., Burroughs Adding Machine Co.
Morgan, George H., G. Sommers & Co.
Mortensen, Otto R., Cargill Elev. Co., Minneapolis
Moga, A. J., 271 Charles St.
Mottram, Percy E., N. P. Ry. Co.
Moyer, Amos F., Auto Engine Works
Mueller, John J., G. N. Express Co.
Nagle, Frank R., C. St. P. M. & O. Ry. Co.
Nelson, Nels, 1017 Cromwell Ave.
Nelson, Nels E., Finch, VanSlyck & McConville
Neubauer, Henry R., C. St. P. M. & O. Ry. Co.
Newlove, George H., Student, Hamline University
Norquist, Ernest O., Schuneman & Evans
Oberg, Albert F., Capital National Bank
Oberg, Stafford L., Capital National Bank
Okell, C. L., Brown Treacy & Sperry Co.
Olsen, Henry E., First National Bank
Olson, Swan, Brown Treacy & Sperry Co.
O'Malley, Clarence, N. P. Ry. Co.
Owen, G., Capital National Bank
Pampush, Joseph R., Theo. Hamm Brewing Co.
Panushka, Charles W., N. P. Ry. Co.
Pepper, Frederick D., St. P. Bridge & Terminal Ry. Co.
Peterson, Axel M., Sauer Bros.
Peterson, Harry, Lindeke Warner & Sons
Peterson, Walter J., J. A. McAffee
Plahn, Henry L., Golden Rule
Power, George C., First National Bank
Provan, Wilfred D., Merchants National Bank
Rapp, Lewis F., Traffic Mgr., Gordon Ferguson Co.
Reed, Chester C., Struchen-Nelson Const. Co.

Reiser, Edw. A., 888 Selby Ave.
Resig, John J., G. N. Express Co.
Rooney, Catherine, 81 W. Summit Ave.
Ross, M. P., J. Q. Haas & Co.
Rowland, James D., Capital City Lumber Co.
Rudeen, Franklin J., D. S. B. Johnston Land Co.
Rutzen, Herman E., Noyes Bros. & Cutler
Sandell, Walter W., Sandell Bros.
Sausen, George M., C. St. P. M. & O. Ry. Co.
Schaffelke, Henry A., 500 Bellows Ave.
Schelin, Arthur E., Provident Loan Co.
Schever, Lucretia, Chas. A. Stickney Co.
Schiltz, Anna E., Commissioner of Insurance
Schlemmer, Christian H., Am. Hoist & Derrick Co.
Schneidler, Philip O., White Enamel Refrig. Co.
Schoen, F. R., 903 Mound St.
Schoen, W. M., Am. Hoist & Derrick Co.
Schroth, Robert C., N. W. Fuel Co.
Searle, George A., China Dept., Schuneman & Evans
Schannon, Thos. J., 708 Globe Bldg.
Sheperd, Arthur K., 1963 Ashland Ave.
Shiely, F. J., Golden Rule
Shirley, Daniel, Central Warehouse Co.
Skogstrom, E. T., 714 Case St.
Sladek, Jerome O., Clerk, G. N. Ry. Co.
Smith, Aloysius E., N. P. Ry. Co.
Smith, Harold R., Maas Keefe Co.
Smith, Thos. G., Mutual Life Ins. Co.
Spitokke, Leon P., Merchants National Bank
Spurr, Arthur, N. P. Ry. Co.
Stein, Samuel, 617 Holly Ave.
Stickney, Lawrence C., Farwell Ozmun Kirk & Co.
Stoffer, Maurice W., Vehon & Goodman
Taylor, Mrs. Edith G., 354 Minnesota St.
Thomas, Alfred D., Nutting Truck Co.
Thorsen, Oscar M., Webb Publishing Co.
Tischler, George J., G. N. Express Co.
Todd, Thos. L., Am. Hoist & Derrick Co.
Tolson, Edgar B., Circular Letter Co.
Trapp, Gustav W., Curtis Printing Co.
Tucker, Lyle, First National Bank
Ulsaker, Hjalmar R., Finch, VanSlyck & McConville
Valleau, Frederick D., Brown Treacy & Sperry Co.
Van Brunt, LeRoy J., Scand. Am. National Bank
Wagner, Charlotta A., 650 Shubert Bldg.
Walker, William G., Finch, VanSlyck & McConville
Walsh, Owen, 135 W. Summit Ave.
Wellisch, Lawrence R., So. Park Foundry & Mach. Co.
Wells, Chas. F., Schuneman & Evans
Westphal, Eleonora B., 186 W. 3rd St.
Whalberg, E. O., G. Sommers & Co.
White, Wm. H., C. St. P. M. & O. Ry. Co.
Whitney, Lloyd E., N. W. Fuel Co.
Widell, David N.. C. St. P. M. & O. Ry. Co.
Williams, Ralph, Y. M. C. A.
Williams, Wm. J., Russell-Miller Milling Co.
Wilson, Alfred E., Security National Bank
Wolkerstorfer, John J., J. Rothschild & Co.
Woodruff, May, Pittsburgh & Ashland Coal & Dock Co.
Woods, Leon I., First National Bank
Woulfe, James J., G. N. Ry. Co.
Zabel, T., 1151 Reaney St.
Zengel, Frank M., G. Sommers & Co.

ENGINEERING COURSES—50

Amundson, Adolph, White Bear Lake
Armstrong, Franklyn J., 109 Ger. Life Bldg.
Armstrong, Raymond G., Deputy Co. Surveyor Ramsey Co.
Bartel, Erwin G., Joy Bros. Motor Car Co.
Borneman, Lewis, 1121 Selby Ave.
Bowler, Robert W., 694 Endicott Bldg.
Broch, G. P., Minn. R. R. & W. H. Comm.
Buetow, Carl H., C. H. Johnston
Buetow, Max O., Buechner & Orth
Caesar, John, Minn. Manufacturers Assn.
Campbell, Robert E., Am. Bridge Co.
Chandler, Don A., Minn. Manufacturers Assn.
Cikanek, Math J., C. St. P. M. & O. Ry. Co.
Cheesman, Roy W., Reed & Stern
Edwins, Simon E., Chapman & Magney
Flad, George W., Joy Bros. Motor Car Co.
Fleischbein, Alan C., E. J. Donohue
Forsman, Martin C., Olin H. Round
Foster, Charles C., Geo. J. Grant Const. Co.
French, Clarence L., Bungalow Const. Co.
Hansen, Arthur V., G. N. Ry. Co.
Hendrickson, Arthur W., 825 Sylvan St.
Hills, James B., Morell & Nichols
Johnson, Albert W., A. W. Stevens
Johnson, Otto H., Tri-State Tel. & Tel. Co.
Johnson, Victor E., Ramaley Boat Co., White Bear
Kerr, Harry A., Andrews Heating Co.
Lanners, Albert, Am. Hoist & Derrick Co.
Larson, Gustaf, G. N. Ry. Co. Shops.
Lee, Thomas, Jr., Krieger Jamar Co.
Leffler, G. H., N. P. Ry. Co.
McGlinch, Frank W., Electric Const. Co.
Minea, Louis A., Berggren Elect. Co.
Nelson, William, 883 Watson Ave.
Peters, Evert S., C. St. P. M. & O. Ry. Co. Shops
Pirkl, Jos., 69 E. 12th St.
Ritt, C. J., 1434 Lincoln Ave.
Scarratt, Albert W., Mpls. Steel & Machinery Co.

Schwarz, M. J., 480 E. Como
Smith, Paul D., Draftsman, Mpls. Steel & Machinery Co.
Stuhlein, Wallace, St. Paul Foundry Co.
Sundborg, Axel, G. N. Ry. Co.
Sweger, Martin A., Draftsman, Mark Fitzpatrick
Swenson, Winford A., N. P. Ry. Co.
Thompson, Harry, N. P. Ry. Co.
Thorsen, Carl I., 115 Jenks St.
Tibbets, Chester H., G. N. Power Co.
Vorum, George, Substation operator
Welsch, Joseph, St. Paul Foundry Co.
Wolff, Frederick P., 17 W. 9th St.

DULUTH

ACADEMIC COURSES—73

Anderson, Irene S., Teacher, Public Schools
Arbury, Katherine, Teacher, Public Schools
Austin, Imogene, Teacher, Public Schools
Auxer, Caroline C., Teacher, Public Schools
Beaton, Neil E., 604 Lonsdale Bldg.
Beinhorn, Bertha, Principal, Lester Park School
Bell, Phoebe A., Teacher, Public Schools
Bohlke, Ada M., Teacher, Public Schools
Boucher, Agnes, Teacher, Public Schools
Dike, Harriet E., Teacher, Public Schools
Fairbanks, May C., Teacher, Public Schools
Flaherty, Belle, Teacher, Public Schools
Gebauer, Rev. George R., 1209 E. 3rd St.
Germond, Mrs. Myra, 413 Exchange Bldg.
Glendon, Harriet F., Teacher, Public Schools
Goodhue, Mary K., Teacher, Public Schools
Grinols, Marie E., Teacher, Public Schools
Greene, Beatrice, Teacher, Public Schools
Guthrie, Katharine, Teacher, Public Schools
Hall, Ganeva M., Teacher, Public Schools
Halling, Florence, Teacher, Public Schools
Hann, Anne T., Teacher, Public Schools
Harter, James W., Principal, Lowell School
Howard, Myrtle M., Teacher, Public Schools
Hunt, Rev. Ray E., First Christian Church
Ingersoll, George, Oliver Iron Mining Co.
Knauff, Anna, The Knauff Sisters
Kunerth, Ethel M., Teacher, Public Schools
Larson, Hortense, Teacher, Public Schools
Larson, Oscar J., 1617 E. 1st St.
LaVallee, Agnes E., Teacher, Public Schools
Lindquist, Florence H., Teacher, Public Schools
Linehan, Margaret, Teacher, Public Schools
Lockhart, Harriet M., Teacher, Public Schools
Longstreet, Alice G., Teacher, Public Schools
MacArthur, Laura, Teacher, Public Schools
McCoy, Dr. Mary, 13 W. Superior St.
McCollum, Adelia E., Domestic Economy Teacher
MacIntyre, Evelyn, Teacher, Public Schools
Marwin, Mary B., Teacher, Public Schools
Mechan, Kathryn A., Teacher., Public Schools
Meier, Amanda, 1507 E. 4th St.
Miller, Mildred, Teacher, Public Schools
Mixoss, S., 423 W. 3rd St.
Mooney, Edward A., Teacher, Public Schools
Nelson, Hattie, Teacher, Public Schools
Northrup, Anna C., Teacher, Public Schools
Ohsol, Johann G., 119½ E. 4th St.
Olds, Mary L., Washington School
Paulson, George M., Supervising School Principal
Perusse, Esther A., Teacher, Public Schools
Picken, Mae E., Teacher, Normal School
Porter, Elizabeth, Teacher, Normal School
Puck, Mrs. M. M., Nurse and Probation Officer
Reinholdson, Lillian M., Teacher, Central High School
Ritchey, Grace C., Teacher, Public Schools
Rockwell, Helen E., Librarian
Sellhorn, Bertha M., Teacher, Washington School
Shearer, Margaret E., Teacher, Public Schools
Simon, Clara, Teacher, Public Schools
Sparks, Mary T., Teacher, Central High School
Stephans, Ruth R., Teacher, Public Schools
Stevenson, Mrs. Cora Noble, Teacher, Public Schools
Stobles, Lula J., Teacher, Public Schools
Strom, Christine, Teacher, Public Schools
Sullivan, Mary C., Teacher, Public Schools
Thompson, Mabel, Teacher, Public Schools
Tilderquist, Dr. David L., 73 Superior St.
Torrey, Elenor, Teacher, Public Schools
Warner, Winifred, Teacher, Public Schools
Wells, Agnes E., Teacher, Public Schools
White, Effie M., Teacher, Public Schools
Wright, Grace A., Teacher, Public Schools

BUSINESS COURSES—43

Arimond, George V., Oliver Iron Mining Co.
Beschenbassel, Carl C., Oliver Iron Mining Co.
Blodel, William L., 514 16th Ave. E.
Bradley, Chas. H., Jr., Stone Ordean Wells Co.
Bunn, Chester S., Oliver Iron Mining Co.
Cahill, John J., 410 Wolvin Bldg.
Cate, Charles W., Water & Light Dept.
Cyr, Albert T., Northern Shoe Co.
Deighton, Cecil H., Oliver Iron Mining Co.
Durham, Kenneth W., Water & Light Dept.
Evans, Chas. G., D. G. Cutler Co.
Evans, John L., First National Bank

Green, Chas. V., Oliver Iron Mining Co.
Grogan, Clifford R., Duluth Missabe & N. Ry. Co.
Gross, George L., Water & Light Dept.
Harkness, George, Water & Light Dept.
Humbert, Charles A., Chester A. Congdon
Jacobs, Albert D., North Butte Mining Co.
Jacobs, Wilmer S., Duluth Jobbers Credit Bureau
Johnson, Peter A., Standard Oil Co.
Johnson, William E., Gowan Lenning Brown Co.
Larson, Raymond L., 125 E. 5th St.
Linne, Thore, Stone Ordean Wells Co.
Lundgren, Gustaf E., Minn. Steel Co.
McKibbin, T. E., 924 7th Ave. E.
McMartin, Robert, Marine Supply Co.
Mannheim, Jos. E., Water & Light Dept.
Minser, Paul O., Crane & Ordway
Moore, Philip R., Duluth Missabe & N. Ry. Co.
Mostur, Erling, Grain Comm. Office
Oleson, Arthur, Gowan Lenning Brown Co.
Pattinson, Chauncey R., Water & Light Dept.
Pyfer, George A., Oliver Iron Mining Co.
Robinson, Bethel W., Northern Shoe Co.
Rogers, Frances H., Geo. D. Swift, Wolvin Bldg.
Rosenkrans, Arthur B., Stone Ordean Wells Co.
Schneider, Wm. M., 310 Wolvin Bldg.
Smith, George O., G. N. Power Co.
Staacke, Howard C., L. B. Knox & Co.
Staky, Carl E., Imperial Iron Works
Udseth, Rudolph J., Peoples Brewing Co.
Williams, Clarence A., Minn. Steel Co.
Young, Percival M., Gowan Lenning Brown Co.

ENGINEERING COURSES—40

Ballinger, Clarence A., Steel Inspector, D. M. & N. Ry. Co.
Beatty, Chester R., 602 N. 61st Ave. W.
Bennett, Joseph, Draftsman, National Iron Works
Briggs, Edward C., Bkpr., D. M. & N. Ry. Co.
Brown, Hal E., Engineering Office
Brown, Hobart H., Contractor, 126 W. Winona
Clark, Francis L., Am. Bridge Co.
Dever, Francis A., Rodman, D. M. & N. Ry. Co.
Ekrem, Peter O., Cordner Bros.
Erickson, Eddie, 1928 W. 2nd St.
Folstead, Abraham, Architect, Folstead & Sullivan
Guildner, Ruben F., R. R. Forward & Co.
Gustafson, Albin B., Draftsman, Anthony Puck
Hagberg, Bernard L., Draftsman, Duluth Eng. Co.
Hamilton, Herbert D., Clerk, National Iron Co.
Jenssen, Leif, Architect, 411 Exchange Bldg.
Johnson, Frank A., 4113 W. 3rd St.
Kremer, Clarence E., Clerk, Duluth Edison Electric Co.
Lindstrom, Edw., Clyde Iron Works
Lyons, A. M., 517 N. 56th Ave. W.
McDermid, Frank Roy, City Engineer, City Hall
Marczak, Joseph, Clyde Iron Works
Maynard, Russell G., City Engineer
Melander, A. Reinhold, Draftsman, D. & I. R. R. Co.
Moore, Gardner B., Rodman, D. M. & N. Ry. Co.
Nelson, Oscar A., Draftsman, Minn. Steel Co.
Nordstrom, Freedolph, Clyde Iron Works
Norman, Carl G., National Iron Co.
Olsen, Otto M., Draftsman, Wangenstein & Gilinson
Olsen, Peter M., 515 Sellwood Blvd.
Onfelt, H. N., Draftsman, Holstead & Sullivan
Ostlund, Eric L., Draftsman, Minn. Steel Co.
Pollock, Chas. A., Draftsman, Duluth St. Ry. Co.
Quinby, John L., Eng., Duluth Fire Dept.
Rood, Lynn, Engineer, National Iron Co.
Standuhar, Frank, Draftsman, W. A. Hunt
Sumatt, Thomas P., Union Match Co.
Sundin, William, National Iron Co.
Swanson, Edgar, 5914 Polk St.
Williams, Owen J., 110 16th Ave. E.

MANKATO

BUSINESS COURSES—55

Ackerman, Frank, 412 Poplar St.
Anderson, John, H. E. Palmer Jewelry Store
Beavens, William B., National Bank of Commerce
Busch, L. A., National City Bank
Bosin, Edmund E., Hubbard Mfg. Co.
Bosin, W. A., F. Krone Store
Chambers, L. F., Consumers Power Co.
English, L., Gamble Robinson & Co.
Flachsenhar, J. J., Mankato Loan & Trust Co.
Fletcher, Arch. D., Geo. E. Brett, Inc.
Gruenenfelder, Albert J., National City Bank
Gervins, C. W., Hubbard Milling Co.
Graif, M. J., Kruse Bros.
Grant, Gordon, Commercial School
Hauch, Herbert M., First National Bank
Hagen, R. A., J. B. & D. Richards
Hanson, Olaf, 130 River Ave.
Himmelman, Harry, Mankato Business College
Johnson, John Albert, Paul Iverson & Son
Krost, J. F., Paul Iverson & Son
Kramer, Archie F., Free Press Printing Co.

Kotkin, Mark, Clerk, P. C. Morrell
Kruse, Albert, Kruse Bros.
Langes, Edmund, German Am. State Bank
Lokensgaard, O. H., National Citizens Bank
Lamm, Stephen R., Mankato State Bank
Linderman, H. E., 518 E. Hickory St.
Loungs, Fred, 824 Baker Ave.
Loungs, Paul, 824 Baker Ave.
Mahlke, Ernest H., Jr., Geo. E. Brett., Inc.
Murphy, William, 414 E. Main St.
McGuckin, Harold, Gamble Robinson & Co.
Malloy, M. J., Standard Lumber Co.
Nelson, Victor, Mankato Business College
Peterson, Edgar A., National Citizens Bank
Pioske, Albert H., National Bank of Commerce
Palmer, W. E., Palmer Jewelry Co.
Roberts, Griffith W., Hubbard & Palmer Co.
Roust, Walden L., Peoples State Bank
Ryan, Leonard B., National Citizens Bank
Rowen, Frank, Mankato Commercial College
Sterling, Wallace E., Wood & Sterling
Sanborn, Walter A., Mankato Savings Bank
Stephan, Frank L., 401 S. Front
Sheehan, James E., Loack Drug Co.
Steiner, Charles, Selber & Steiner
Skjeveland, Arthur, Mankato Commercial College
Shorl, Harry, Mankato Commercial College
Sorenson, Arthur, Mankato Commercial College
Strand, Oliver, Mankato Commercial College
Vosbeck, Walter A., First National Bank
Walser, Fred G., First National Bank
Westhoff, Mr., Nyquist Clothing Co.
Witke, W. C., Mankato Commercial College
Westgard, Albert, C. E. Stevens

NORTHFIELD

BUSINESS COURSES—27

Blodgett, A. B., Clerk, Northfield National Bank
Brunsberg, Paul O., Northfield Seed & Nursery Co.
Dougherty, William P., Instructor, High School
Fink, Walter.
Grover, Earl F., Grover's Auto Garage
Hauer, Alfred C., McGuire & Hauer, Jewelry
Heiberg, Emmett A., First National Bank
Hoppin, Claude E., Northfield National Bank
Kelley, James Wm., H. B. Hanne
Killen, L. S., Northfield National Bank
Lee, William H., Lee Furniture Co.
Lemke, Edward F.
Lockrem, Carl T.
MacKay, Alexander, The Alexander Marshall Co.
McGuire, Talford, Chas. Crary
Mankenberg, Charles, Teacher, Public Schools
Mergen, Peter J., State Bank of Northfield
Miller, John A., McGuire & Hauer
Mohn, Geo. W., Mohn Printing Co.
Nutting, John D., First National Bank
Punderson, James M., Northfield Seed & Nursery Co.
Roe, Ludwig, Northfield News
Roster, E. N., Northfield News
Scriver, Arthur T., Northfield National Bank
Stoffer, Jacob C., State Bank of Northfield
Tschann, F. J., First National Bank
VonLevern, William P., Northfield High School

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